M

M400 130:1, 10 M400-1400 130:9; 141:16; 155:14; 156:12 machine 133:3; 172:3; 179:20; 183:24 machinery 63:18 machines 22:9 macro 110:13 MACSTAR 22:24; 23:8; 178:21, 22; 181:7 magnitude 211:5 main 4:6; 18:17; 20:21; 21:2; 23:17; 24:14; 58:13; 117:21; 141:11; 156:11, 13; 157:17; 159:21; 165:9, 11, 17, 19; 182:24; 186:16; 209:21 mainframes 156:24 mainly 21:2; 62:8 maintain 135:14; 136:22; 147:13 maintainable 164:16 maintaining 211:13 maintenance 65:17; 140:18; 141:1 major 16:23; 22:11; 23:20; 138:9; 139:13 majority 34:15 makes 101:7; 108:12; 199:5; 215:22 makeup 44:23; 85:12 making 22:6; 25:17; 29:7; 36:2; 37:19; 47:19; 75:13; 76:3; 82:24; 88:16; 103:16; 119:13; 157:14; 158:4; 162:4; 196:20; 222:5; 225:12; 228:4 management 7:1; 18:5; 145:23; 146:3, 10, 11 manager 214:14 Mandl 192:2, 19; 199:24; 200:3; 205:3; 209:6; 213:15 manner 10:10; 18:3; 81:17; 130:21; 216:22; 219:5 manual 166:7; 168:2; 218:3, 18 manufactured 21:7 manufacturer's 140:7 Manufacturers 124:16; 139:4 manufactures 36:13 many 11:23, 24; 18:24; 28:24, 24; 51:18; 52:7, 7; 71:22; 83:9; 111:4; 131:21; 142:7; 155:14, 20; 156:1; 157:16; 183:21 map 203:21 March 4:8; 209:3 mark 5:6, 20; 76:9

marked 5:22; 6:5; 76:24

market 47:4; 48:22; 49:2, 10, 14, 18, 24; 63;2; 151;8; 152:7:214:18; 221:11, 18, 18; 225:8 market-entry 226:15 marketing 16:8, 24; 226.8 marketplace 16:18, 22 markets 152:17 Maryland 20:9: 29:17: 212:16 Massachusetts 7:15; 8:15; 22:4, 23; 23:17, 23, 23; 30:19; 31:8; 41:19; 42:8; 48:19; 51:8, 18; 60:20, 22, 23; 61:6, 21; 71:1, 18, 21; 72:3, 5; 75:12; 83:18, 24; 84:3, 16, 21, 23; 88:17; 89:14; 92:19; 95:20; 97:4, 10, 20; 98:2; 103:20; 104:8, 22; 105:3; 109:21, 24; 129:12; 138:1, 3, 8; 140:14; 146:22; 151:7, 12, 21; 152:4; 163:2, 4; 166:15; 178:20; 185:18; 191:1, 13; 193:9; 208:2; 209:4; 210:14; 216:13, 18; 217:3, 11, 17; 218:14, 22; 219:1; 225:6; 226:24; 227:6, 11, 13 Massachusetts's 27:9 match 204:11; 206:13 matches 210:9 math 45:5; 155:17 matrix 63:23; 130:4 matter 5:11:68:22: 69:22; 79:10; 90:19; 131:20; 201:24 matters 36:22, 22 May 4:1, 24; 5:1; 10:22, 23; 15:6; 17:15; 28:15, 15; 32:23, 42:23, 78:14; 79:18; 80:8, 8, 21; 83:4; 88:2; 96:11; 103:1; 109:3; 120:9; 127:8; 132:8; 146:11, 12; 147:5; 148:16; 161:5; 176:9; 193:18; 196:1, 9; 203:18; 205:3; 214:4; 228:18 maybe 36:3; 45:22; 83:19; 86:17; 150:9 MCI 4:5; 13:4; 16:14, 16, 18; 20:17; 26:20; 27:13, 18; 28:8; 30:8; 31:16; 199:3; 220:14; 228:18 MCl's 15:24; 16:13; 17:4; 18:20; 125:10; 196:14, 15; 199:8 MDF 158:6 mean 59:12; 70:10; 72:3; 117:16; 124:6, 14; 131:4; 135:22; 151:13, 24; 153:16; 154:1; 158:8; 163:20; 165:1; 166:10; 167:15; 177:14; 182:15;

Meaning 130:22 means 12:21:16:20: 19:12: 83:12, 18; 84:20; 86:4: 92:20, 23; 170:12; 198:19; 222:2 meant 74:24 measured 171:13 measurement 142:1 measuring 102:21 mechanical 21:9; 131:12 mechanism 63:22 mechanization 172:4 mechanized 31:22 mediator 67:16, 20:68:2 meets 33:12; 112:12 megahertz 130:16; 131:5 member 98:11 memory 23:5; 170:21 mention 22:24; 118:21 mentioned 29:21; 58:2; 79:22, 23; 80:1 mentioning 26:8 merely 16:19; 56:22 merger 120:1, 15 messages 171:20 messed 59:10 met 4:21:68:2 metal 156:4 metallic 62:23, 24; 130:23 method 21:19; 171:4 methods 31:12; 34:2, 11; 77:19; 81:6, 10; 82:5; 91:11, 11; 117:23 metro 62:9 MF 121:18 middle 146:18 might 29:11; 46:13, 22, 24; 62:5, 6; 76:11, 13; 85:5, 7; 95:20; 97:9; 104:13; 109:19; 125:11; 130:4; 141:9; 142:10, 19; 147:15; 151:20, 23; 195:17 migration 160:7, 18 milestone 112:12 mimic 16:19 mind 39:9; 50:14; 83:17; 85:9; 114:13; 119:5; 183:5; 216:15 mind's 49:19 mini-collocation 142:8 minicage 162:10 minicages 8:21; 50:9; 161:21 minimal 11:13 minimize 34:14 minimizes 14:24; 217:14 minimum 156:20: 193:3: 217:7 minus 45:15

minus-48-volt 66:6

minute 43:19; 44:1, 4;

45:3, 7, 8, 9; 98:3; 110:21; 143:17; 220:4, 4, 4, 20 minute's 220:19, 20 minute-by-minute 221:22 minutes 34:20:37:8; 99:16; 220:6, 7, 11, 16; 222:1, 2 miscellaneous 66:12, 15 miscommunication 218:6 misnomer 169:23 misquoted 88:21 missed 120:20; 191:6 Missouri 214:13; 216:2 mistake 109:8 misunderstand 210:19 mix 43:19 MLT 31:22 mode 166:10; 183:7 model 213:2 modeled 162:24 modeling 225:16 modern 30:10 modest 55:11 modification 95:7 modifications 80:7: 180:8, 17; 181:2, 3, 6, 19, 21; 182:1 modified 79:3; 95:5; 181:18 modify 55:5 module 142:18 moment 84:4; 227:15 money 21:24; 23:13; 135:3 monitors 141:3 monkey 179:16, 18 month 48:24; 49:17; 222:1 months 52:6 more 14:21; 17:6, 17; 18:4, 12; 21:6; 24:3; 29:1, 3, 23; 30:15, 18; 31:5, 14, 17, 17; 32:12; 34:5; 40:6; 44:6; 45:3; 51:2; 53:2; 59:10; 60:2, 20; 62:19; 63:11; 78:4; 102:10; 109:5; 110:13; 112:21; 121:5; 137:17; 147:15; 152:6, 21; 155:10; 158:13, 17; 178:18; 180:4; 189:1; 193:3; 200:21; 206:16; 207:15; 220:16; 222:3 Moreover 10:12 morning 4:3; 5:8; 7:13; 19:10; 35:21; 74:15; 111:22; 115:7 most 5:17; 35:14; 49:12; 99:17; 188:7; 220:5 mountable 128:18 mounted 24:19; 66:12; 134:4

move 33:21; 49:22;

178:10; 207:9

moved 176:22 movement 208:4 moves 167:6, 19: 176:23 moving 26:8; 34:17; 133:12 much 16:15; 43:21; 126:13; 127:17; 141:16; 152:12: 155:19: 179:9; 184:8; 187:17; 199:22; 206:14; 213:21; 225:11, 13, 19; 228:14 mud 19:14 multicarrier 22:14; 23:21; 26:14 multifrequency 121:9, 13, 18 multiple 17:9; 163:17; 179:18; 182:17; 187:21; 217:5, 23 multiplexed 206:11 multiplexing 123:2,7, 24; 193:15; 208:13 multiplying 205:22 must 12:16; 39:1; 54:13; 71:19; 92:17; 208:23; 218:17 MUXed 206:4 myself 19:12; 29:21 mystery 30:9

N

name 6:12, 21, 24; 7:6; 12:24; 19:11; 74:17; 101:19; 122:4; 151:16; 214:8, 11 narrower 184:8 nature 37:5; 100:8; 104:19; 110:7 near 196:15 neat 30:1; 164:15 **NEBS** 211:22 NEBS-compliant 136:4 necessarily 62:1; 84:14, 17; 85:15; 124:6; 138:14 necessary 10:13; 72:21; 106:21; 168:5; 179:24 necessity 107:1; 182:21 need 8:14; 12:17; 15:13; 23:3; 61:8, 9, 9; 63:19; 64:5; 115:19; 116:9; 118:2; 122:14; 123:3; 131:21; 132:1; 133:22; 134:9; 142:3; 146:23; 152:3; 155:15, 19, 23; 182:22; 187:15; 190:3, 3, 4, 11, 11, 12, 13, 13; 204:24; 206:17; 209:16; 218:3; 225:22, 23, 24 needed 142:3; 202:3 needs 186:10; 216:1; 221:6; 223:9 negative 154:23 negotiated 50:23; 60:12;

183:4; 196:12; 199:15;

210:5; 223:10

70:21, 98:15, 16; 109:2

negotiating 85:11 negotiation 51:10; 72:15, 20, 21, 23; 75:20; 120:14 negotiations 4:10; 12:9; 51:11; 52:2, 4; 67:23; 71:6, 8; 120:15; 212:19 network 7:7; 9:23; 13:19; 14:10; 15:2, 4, 11, 14, 22; 17:24; 18:5, 23; 19:22; 27:1, 6, 10, 15, 17, 20; 28:7, 16, 22; 29:12; 32:20; 34:22; 64:1; 80:9; 104:15; 119:19, 20; 120:4; 123:14, 15, 18; 125:1; 126:24; 127:5; 129:8; 135:7, 20; 144:8; 149:8; 151:3; 152:22, 24; 159:3, 10, 24; 160:3, 8; 161:6; 162:24; 163:2; 166:20; 167:11; 168:24; 178:3, 7; 197:21; 207:18; 211:19; 212:10, 21; 215:4, 6, 11; 216:22; 217:5, 21, 24; 218:18; 219:4; 221:1, 4, 6, 6; 224:1; 226:1, 5; 227:17 network-element 107:14 network-functionality 161:17 networks 124:20 new 10:21; 11:1, 17, 21, 22; 12:1, 5; 20:10; 27:14; 29:17; 50:20; 51:4, 7, 15, 19; 52:1, 11; 53:10, 12, 21, 24; 60:3; 61:10; 63:9; 70:21, 24; 71:20; 73:3, 13, 18; 74:11, 12, 22; 76:2, 6, 11; 77:11, 17, 24; 78:3, 16, 19; 79:6, 14; 80:6, 16, 17, 23, 24; 81:2, 3, 13, 21; 82:17, 19; 83:13, 20, 21, 21, 22; 84:1, 2, 8, 14; 85:6, 10, 13; 87:1, 1, 3, 7, 15, 23; 88:2; 89:6, 9, 21; 91:10; 92:10, 12, 18, 20; 93:10; 94:24; 95:6, 11, 13, 14; 96:17; 97:12; 98:13, 17, 23; 99:7, 9, 10, 15, 18; 100:7, 9, 15, 21, 22; 101:6; 102:6, 9, 16; 103:7, 13, 19; 104:20; 105:6, 12, 19; 106:3, 4, 7, 12, 13, 18; 107:11, 16; 108:4, 12, 13, 17, 19; 109:10, 16, 20, 22, 24, 24; 110:4, 14, 15, 16, 19: 111:10, 12, 15; 112:5, 9, 10, 12, 14, 17; 113:11, 11, 14, 19; 114:5, 6; 117:3; 120:14; 122:24; 123:10, 22; 125:12; 138:2; 140:3; 167:19; 168:5, 21; 183:12, 13: 217:4, 23; 218:16, 17, next 12:23; 21:10; 23:15; 24:23; 26:6, 20; 27:8; 28:19; 29:2; 31:15; 39:8; 96:8, 12; 154:21; 205:3;

NID 40:24 nifty 45:24 NNX 196:17; 198:11, 13; 201:8, 10, 11; 202:3, 12; 203:11 NNX's 204:17 nobody 82:14 nodding 90:14 node 13:15; 14:4; 118:1; 192:24; 194:9, 20; 195:16, 22; 199:6 nodes 78:4 nominal 134:20; 135:2 non 55:11 non-Bell 138:23 non-cost-based 95:23 noncage 81:23 Noncost-based 218:18 nondiscriminatory 81:16 none 91:5, 5; 137:5; 145:5; 158:24 nonrecurring 46:17; 49:11; 55:8 nonrecurring-cost 104:22; 105:4; 185:17 Nonswitch 176:15 Nor 97:10 normal 57:16; 135:13; 136:15; 143:5; 156:6 normally 219:22 NorTel 138:18: 140:1 North 183:12 Northern 181:13; 201:21; 212:18 note 225:1 noted 38:2; 65:3 notwithstanding 46:17 novelty 196:22 now-resigned 100:10 NPA 204:17, 17 number 5:5; 12:15; 19:21; 20:14; 22:3; 23:19; 28:17, 20, 21; 30:14, 17; 49:4; 52:6; 56:5, 15; 58:20, 21; 60:13; 61:7; 76:13; 126:2; 141:20; 152:2; 162:15; 178:12; 179:18; 180:11; 181:6, 17; 183:3; 194:8, 12, 14; 196:15, 17, 23; 197:6, 13, 18; 201:3; 202:14, 17; 203:22; 205:11; 212:7 numbered 89:6 numbers 50:16; 178:12; 194:23; 200:15; 201:10; 203:6, 10, 14, 15, 22 numerous 7:16; 10:8, 16; 51:14; 218:3 NXX 202:24; 204:3, 11, 13

0

O 213:23; 214:11 O'Mara 100:11 object 119:1 objected 48:15 objection 48:16; 69:3; 92:3 objectives 85:22; 86:6, obligation 102:8 obligations 9:3 obliterate 9:21 observer 86:5 obstacle 218:11 obtain 8:13; 12:18; 204:10; 227:18 obtained 211:5 obvious 84:9; 215:2 obviously 61:2; 69:12; 70:20; 72:12; 216:13, 15; 219:15 occasion 114:20 occasionally 19:14 occasions 185:1 occupant 76:20 occupy 163:17 occur 16:17; 66:4; 160:24; 198:4 occurred 52:2 occurs 33:23; 34:18; 84:2; 206:23 off 19:14; 30:7, 7, 11; 41:24; 56:18; 114:15, 17; 122:12; 140:23; 142:10; 145:6, 7; 153:19; 156:24; 174:13, 18, 21; 175:6, 11, 24; 177:9, 9; 179:11; 182:18; 193:4; 196:6; 197:5; 198:7; 200:6; 225:5 off-the 101:23 off-the-shelf 101:22 offer 15:10; 37:24; 38:18; 47:10; 65:22; 72:14; 113:3; 116:3; 117:15; 118:11; 129:1, 3; 131:18; 152:22; 223:5 offered 14:10; 39:3, 4; 41:7, 8; 50:1, 7, 9; 70:20; 89:23; 97:7, 23; 112:17; 165:13 offering 8:17, 20; 10:14; 11:1; 13:5; 14:15, 19, 23; 28:7, 8; 38:2; 39:6; 50:3, 4; 53:15, 20; 68:24; 69:22; 71:2; 77:18, 23; 80:13, 17; 81:5; 83:7; 90:3; 94:24; 95:4; 98:2, 7; 102:17; 107:6, 6, 15, 21; 113:24; 115:13, 14, 23, 24; 116:15, 16; 117:10; 118:13, 24; 119:10, 12, 13; 121:4; 122:3; 134:17; 135:12;

146:24; 149:24; 151:11;

152:8, 21; 153:12; 203:9;

223:10; 225:10; 227:5; 228:2 offerings 8:24; 9:5; 10:14, 16, 23, 24; 11:1, 2, 11; 37:22; 38:8, 10; 40:14; 42:3; 90:5; 115:21; 116:23; 151:8; 152:7 offers 78:19 office 8:15; 12:18; 14:13; 19:2; 24:13; 29:2, 10; 30:11; 32:1, 16, 22; 48:19; 49:8; 56:11, 12; 57:18, 21; 65:7; 66:6, 7, 8, 10; 67:6; 102:9, 23; 103:4; 116:11; 131:15, 16, 19; 134:2, 19; 136:13; 139:12; 140:13; 141:17; 143:7; 144:12; 145:14; 146:22; 147:1; 154:15; 155:1, 13; 158:9; 159:10, 12, 16; 164:10; 167:5; 169:19; 182:23; 186:7; 187:1, 12, 15; 195:10, 11, 13; 196:13, 15, 16, 21, 23; 197:7, 14, 15; 198:12, 22; 201:3, 9, 10, 11; 202:9; 203:8; 211:24 officer 85:19 offices 18:24; 24:1; 33:2; 48:17; 49:5; 78:3; 138:5, 24; 141:8; 154:17; 155:3; 162:5; 183:18; 194:13, 15, 19; 201:5, 6, 13; 209:20 official 100:8 officially 99:7 often 137:17 once 37:5; 91:12; 114:5; 136:8; 179:7; 195:21; 227:23 one 9:23; 10:11; 19:2; 20:17, 20; 28:19; 29:3, 21; 31:16; 38:22, 23; 42:17, 18, 21; 45:23; 50:3; 57:11; 58:16; 59:3, 7; 62:5, 6, 12; 63:4, 19; 64:3, 5; 71:13; 73:23; 82:12, 22; 83:11, 24; 84:1; 85:5, 16; 90:16, 16; 95:20; 96:12, 14; 102:23; 104:5, 10; 108:9; 113:17; 114:14; 124:10; 125:19; 126:3; 128:8, 11, 14; 129:23; 131:10; 142:11; 143:11, 11; 148:8, 10, 17; 153:2, 3; 154:21; 156:18; 158:23; 159:14; 163:16; 168:19; 169:8, 12; 170:10; 177:1; 178:10, 20; 179:3, 15, 16; 181:19; 184:14; 187:19; 191:9, 18; 192:24; 193:3; 194:15; 195:15, 20; 196:5; 201:6, 8, 13; 203:7, 21; 204:7; 205:1, 6, 18, 18; 206:13, 13; 209:13; 210:9, 9 one-for 113:16 one-per-one 205:17 ones 80:3; 137:1; 152:3; 183:6; 212:13, 15, 18, 20 only 18:15; 23:23; 34:16;

57:3; 73:18; 76:19; 78:9; 95:12; 100:7; 102:23; 104:8; 118:19; 125:19; 127:3; 128:23; 132:19; 136:8; 143:14; 145:13; 147:6; 179:5, 16; 184:3, 6; 187:6; 188:12; 215:16; 218:8, 12; 224:5; 226:3 onto 30:4; 46:7; 123:4; 157:1; 195:24 open 71:20; 75:2; 77:21; 81:24; 84:22, 24; 85:15; 86:1; 92:18 opened 92:14; 93:1, 3 opening 5:19; 7:12; 12:23; 19:7; 36:10, 22; 37:2; 169:9; 177:23; 214:5 operate 136:20; 171:5 operating 63:5; 144:15; 168:3, 16; 171:1, 22; 180:7; 211:13 operating-supportsystem 180:15 operationally 17:7; 126:22 operations 19:13, 22; 125:11 operative 146:13 operator 8:8; 15:20; 118:9; 120:24; 151:5 opinion 123:16; 124:7, 11; 217:11 opportunity 39:22; 40:5; 41:18; 47:16; 83:7; 184:4; 220:13; 225:12 opposed 58:1; 86:14; 130:20; 132:11; 136:10; 174:8; 189:16 option 13:13; 14:3; 26:20; 148:24; 159:18; 163:23; 201:8; 219:13 options 8:19, 21; 148:8; 164:2; 165:7; 168:14 order 4:8; 6:12; 55:6; 79:18; 80:8, 22; 103:16; 106:23; 131:22; 168:2; 180:16; 202:4; 211:5; 215:11; 225:22; 227:16, 23; 228:6 ordered 54:1; 125:6 ordering 17:9, 14, 16; 23:10; 166:3; 181:9 **orderly** 164:16 orders 183:13 original 141:6; 217:9 originally 178:23 originated 199:11 originates 197:3 originating 194:18; 195:14; 196:5 OS 182:7 OSS 46:18; 91:18; 94:13, 20; 174:7; 175:20; 180:17; 181:2; 183:1 OSS's 17:9; 181:6, 21; 185:6

NXX's 203:3

226:11

niche 214:18

38:2; 44:3; 47:24; 48:19;

OSS-cost 185:17 **OSS/NRC** 4:20 others 9:9; 11:7; 26:5; 37:16; 48:15; 125:4; 138:18; 161:19 otherwise 121:20; 147:8 ought 76:14; 132:8; 216:8, 11 ours 159:10 ourselves 166:9; 185:7; 212:23 out 4:8; 35:20; 43:12; 46:8, 10; 47:2; 49:14; 56:13; 59:5, 12, 13, 14, 17, 18; 68:3; 82:11; 84:2; 97:23; 119:20; 121:10; 142:9, 14; 143:18; 149:7; 151:2, 3; 152:13; 158:9; 160:8; 167:6; 169:19, 19; 176:22, 24; 178:7, 16, 24; 192:12; 196:21; 197:14; 198:12; 205:15; 206:1; 221:5, 10; 225:14 outcome 135:17 outlined 103:24; 104:11; 155:14; 215:14 output 206:13, 14, 15, 17, 18; 208:12 outputs 186:23 outs 227:24 outside 24:10, 15; 32:1; 45:19; 63:4; 65:14; 125:3; 130:24; 186:11; 212:1, 10 outside-plant 129:10; 212:17; 213:3 outstanding 51:15 over 6:19; 16:14; 33:16, 17, 22; 34:5, 17; 46:7, 21; 47:5; 52:6; 53:3; 59:2, 7; 156:21, 23; 160:8, 15; 180:6; 188:19; 215:10 overall 85:22; 181:16; 189:18; 216:19; 219:17 overcome 48:15; 138:22 oversimplification 113:21 own 14:20, 21; 18:3; 19:1; 25:16, 20; 27:24; 28:4, 10; 30:24; 31:4; 40:11; 51:24; 55:24; 56:2, 24; 57:11; 65:11; 83:5; 115:10, 14; 117:24; 118:3; 132:14; 135:6, 20; 146:23, 23; 160:10; 161:16; 163:24; 165:1, 3, 7, 7; 179:5;

187:24; 188:11, 14; 192:6; 212:21, 23, 24; 216:23; 219:6 owned 24:20; 116:19 ownership 134:21

P

owns 135:23; 165:10

p.m 228:22 pack 136:17 package 79:16; 129:1; packages 10:18; 65:23; 79:23 packaging 213:6, 8 Page 17:8; 38:5; 54:20; 71:14; 74:5; 77:8, 15; 78:3; 83:6; 89:24; 91:8; 92:15; 95:11; 98:5; 102:3, 6; 105:6, 8; 107:11; 112:3, 8; 117:11; 121:23; 123:4; 124:5; 125:24; 126:3, 6; 146:17, 19; 149:9, 10; 189:8; 213:10 pages 101:16; 114:2; 125:19 paid 148:14 páinfully 82:11 pair 64:12; 144:11; 206:24 pairs 62:24; 133:2; 162:13, 14 panel 5:17; 63:23; 64:3; 66:12; 82:3, 14; 87:13; 98:11; 112:16; 130:2, 15; 133:8; 187:7, 7 panel's 100:20; 110:18; 111:18 panelist 77:22 paper 51:1 parade 25:1 paragraph 24:5;71:17; 77:15, 16; 81:12; 82:5; 91:8; 105:8, 9, 15; 106:15, 17; 107:5, 11, 19; 146:19 parameters 171:17 paraphrase 105:9 pardon 74:16 Parkway 214:13 parsing 92:9 part 19:2; 25:1; 34:22; 35:5, 12; 39:7; 52:1; 60:4; 66:19; 71:5, 21; 72:12, 15, 16, 19; 76:8; 84:23; 85:21; 92:19; 136:13; 145:15; 172:5; 181:16; 205:6; 207:18; 211:1; 220:1, 2; 226:8,9 participate 41:15; 47:18; 52:3; 72:17; 75:18; 86:16 particular 37:14, 17; 62:10; 64:1; 70:5; 71:16; 95:5; 98:19; 129:18; 131:19; 133:8; 134:11; 138:6; 140:9; 172:22; 173:12; 182:11, 13; 198:1, 1; 208:7 particularly 72:18;

party 25:11, 23; 58:19; 199:14 party's 216:16 passage 20:2 passed 211:20; 212:2, 8; 213:7; 218:24 passthrough 67:8 patent 63:13 path 160:7 paths 206:6 patience 68:7; 228:15 patiently 62:16 pattern 46:14; 47:7 Paul 4:17 Paula 5:13; 6:9, 13, 21; 7:14; 127:18; 145:9 Pause 45:5; 77:6; 123:8; 125:20; 143:19; 149:12 pay 18:14, 15; 42:11; 43:11; 45:6, 9; 165:4; 221:22; 223:20, 22 paying 43:10, 18; 44:3, 3, 5, 13, 15, 16, 17, 19; 45:3; 199:22; 200:20; 222:3 payroll 138:16 pays 42:8 PBX 34:23 PBX's 34:24 pending 79:2; 80:7; 87:7; 93:20 Pennsylvania 20:10 penny 43:18, 18; 44:1, 3 people 75:6; 172:1, 2; 177:17; 179:18 per 13:23; 48:23; 49:14, 17; 64:12; 115:8; 146:2; 192:24; 193:4; 203:11; 209:10; 226:13 per-job 129:5 perceived 18:9 percent 41:23; 45:8; 48:22; 49:10, 14, 18, 23; 183:12, 13, 19; 184:6, 19, 20: 226:14 percentage 45:18; 220:9, 10 perchance 76:16, 22 perfect 176:16 perfectly 48:18 perform 33:10; 145:23; 146:3; 179:24; 182:10 performance 32:19; 33:7 performed 25:22; 180:7; 181:22; 211:8 performs 16:8, 11; 171:23 perhaps 6:17; 36:18; **38:9; 85:17; 88:7** period 19:23; 33:20, 24; 49:16; 53:22; 54:7, 9, 10, 16, 61:3, 95:3, 102:12, 22, 24; 103:2; 217:22 periods 61:9; 91:5, 6, 14;

peripheral 149:19 permission 85:20 permit 9:19; 11:14; 13:11; 14:1; 16:2; 36:18; 38:11; 47:23; 48:6, 12; 141:10; 166:1; 178:2; 225:8 permits 11:5; 36:13; 80:2; 116:16; 163:7, 17; 172:20; 177:12 permitted 54:11; 79:10; 136:9 permitting 25:3; 77:19; 81:6; 91:12 persist 111:4 person 19:13; 25:4; 65:20, 20; 150:5; 179:16; 180:19; 199:9 personally 227:8 personnel 66:2, 2 perspective 39:16 pertinent 82:20, 23; 83:13 petition 12:10; 215:15 phase 4:15; 66:14 phone 143:9; 217:3, 12, 21,23 phrase 81:10; 120:20; 169:16 physical 8:19; 20:23; 26:18; 27:21; 50:4; 62:24; 65:12, 18; 103:8; 130:22; 132:11, 18, 22; 133:23; 135:16, 18, 22; 141:9, 10, 13, 16; 143:2; 146:21; 147:6, 8, 18; 163:6; 164:19, 24; 165:14, 21; 167:10; 169:18; 174:23; 182:22; 186:10, 14; 187:1, 3; 189:11; 190:8; 209:19, physically 116:10; 128:11; 163:11; 173:1, 10; 175:16; 197:4; 199:3 PIC 171:15 pick 17:23; 33:20; 38:22, 23; 55:7; 75:17; 136:3, 3; 137:9; 219:16 picked 33:23; 45:21 picking 34:17; 56:22 picks 147:11 piece 16:8, 10; 59:16; 134:18; 138:9; 152:23; 157:1; 188:13; 206:6; 209:23; 223:8, 9 pieces 119:11; 129:7; 139:13; 143:10 pin 30:3, 5; 133:12 PIU 220:15 place 20:23; 42:24; 63:20:86:11:92:15: 94:14, 21; 103:9; 137:1; 153:3; 155:20; 157:7;

167:4, 10; 177:21; 183:9,

placed 158:3; 172:18

18; 185:2, 11

May 1, 1998 places 59:8; 62:23; 64:1; 130:22; 203:20, 23 plan 71:21; 83:8; 84:1 , 23; 86:2; 92:19; 97:12; 104:15; 205:7; 228:17 plane 214:23 planning 16:11; 19:22; 204:6 plans 16:23; 17:1; 27:11; 161:15 plant 130:24; 212:1, 10 platform 9:7, 10, 13; 10:5, 13; 11:2; 14:18; 16:14; 17:21, 22; 18:2, 6, 8, 10; 39:10; 40:23; 46:8; 78:6, 9, 20; 79:14, 17, 19, 21, 24; 80:2, 4, 13, 17, 20, 24; 90:3; 94:24; 96:18; 100:23; 101:5, 7, 10; 102:9; 103:3, 6, 14; 105:14; 106:11, 24; 107:14, 19; 108:13, 15; 113:13; 118:2; 221:2, 12; 223:4 platforms 11:11; 15:21; 61:11, 13; 62:5; 118:9; 121:1 please 24:7; 53:9; 60:16; 71:14; 93:22; 96:5, 8; 105:7, 10; 122:11; 126:1; 190:21 pleasure 114:12, 13 plugs 140:22 plus 18:18; 50:10; 54:23; 180:7; 181:24 point 5:20; 17:12; 29:21; 46:2, 24; 54:13; 55:22; 56:17; 58:7; 63:14; 69:21; 102:21; 110:5; 153:19; 157:3; 160:5, 13; 175:18; 186:15; 194:16; 196:19; 199:21; 212:8; 216:7; 219:20; 222:4, 17; 223:6; pointed 84:2; 97:23 points 17:23; 84:11; 90:21; 217:5, 23 70:1; 140:10; 145:13; 214:6, 15 port 8:4; 16:3; 21:17; 43:10; 116:14; 117:24;

71:3; 72:8; 76:4; 77:18, 24; policy 10:6; 67:13; 69:22; 33:19:41:5, 11, 16; 42:14; 144:11, 14, 18; 149:13, 16, 17, 21; 150:5; 151:3; 153:8; 166:17, 22; 170:1; 172:12 portion 98:19; 143:6; 205:8 portrayed 28:9 ports 20:22; 24:12; 165:18; 186:17, 20; 189:23; 223:23 position 5:10, 13, 21; 6:18; 7:19, 21; 13:8; 19:24; 20:7; 51:1; 60:20, 24; 61:2; 68:12, 18; 69:2, 8; 71:10;

92:1;98:1

parties 4:10, 21; 5:5;

partitioning 22:12;

36:24; 51:12; 52:21, 22;

67:14; 68:2; 72:14; 83:8,

15, 15; 93:7; 98:19; 214:5;

225:14

228:21

179:14

parts 7:23

15:1; 16:22; 19:8; 25:16; 28:4; 30:17, 24; 41:14;

50:15; 53:5; 54:16, 22;

76:8; 117:9, 12; 121:23; 128:1; 132:17; 133:13, 13; 134:2; 135:4; 146:18; 152:20; 157:21; 161:22; 166:1; 169:2; 215:14, 16; 216:19; 227:21 positions 66:16:133:10. 11:216:15 positive 103:5; 112:14, 18; 154:23 possibility 47:11, 23; 60:23; 115:7 possible 10:23; 21:21; 55:20; 61:18; 98:22; 175:19; 182:15 possibly 105:18 potential 25:12; 61:20; 218:11 potentially 26:15; 58:21; 218:24 POTS 78:10; 130:17; 190:1 POTS-type 120:18, 22 pounds 156:8 power 66:7, 10, 23; 190:3, 14 powered 66:13 practical 13:9; 81:18; 126:22 practice 145:22; 167:12, pre-Eighth 166:9; 183:7. preassumes 21:18; 170.5 preceding 81:11; 82:6; 107:5 precise 108:24 precisely 68:17; 73:23; 107:3 preclude 47:11 predecessors 167:8 predefined 86:17; 179:15 predicated 204:20 prefer 64:13 prefiled 70:21; 214:1 prefiling 11:18, 21; 50:24; 52:8; 73:14; 76:10; 77:11; 89:23; 98:13, 23; 99:10; 100:9, 16, 21; 101:6; 102:6; 105:7; 107:12; 108:14; 110:17, 22; 111:14; 112:20; 122:23; 125:12 preliminary 36:22; 180:3 premises 195:4 prepared 71:1;82:21; 111:16; 113:5, 11; 116:24; 118:11 presence 146:21; 147:6, 8.18 present 17:11; 23:19; 214:1

presented 22:4; 50:16; 92:10 presenting 36:9 press 170:14 presumably 65:20; 106:6 pretty 31:19; 46:9; 162:6; 200:11 prevailing 221:18 previous 20:16; 54:12; 119:4,6 previously 5:22; 73:10; 77:12; 97:16; 107:13; 115:4; 127:19; 145:10; 161:13; 165:13; 213:23 prewired 186:8 PRI 101:4, 11 price 9:13; 16:16; 39:11, 20, 24; 40:19; 43:17; 48:10; 64:12; 108:20; 109:17; 128:19, 22; 129:2; 134:20; 135:2; 148:14; 212:19; 220:17 priced 10:9; 45:15; 129:5 prices 17:2; 54:23; 189:11 pricing 9:12; 16:23; 39:9; 40:22; 41:19, 23; 109:23; 205:7; 206:2; 220:20 primarily 143:1; 214:3 primary-rate 100:23 principal 7:23:40:9 principally 9:8; 48:16 principle 38:21; 47:8; principled 82:24 principles 10:7; 37:18; 38:17; 112:24; 113:2, 5, 12 prior 107:22; 114:20; 167:22, 24; 197:17 private 57:9, 10; 115:19; 207:5, 12, 15; 208:5, 5 privileges 171:9 pro 111:18 pro-Massachusetts 219:7 probability 25:12 Probably 21:23; 23:16; 48:4; 53:9; 61:1; 84:15; 126:19; 146:1; 150:7; 158:16; 159:11; 160:4 problem 23:20; 35:15, 24; 224:15; 226:8, 10, 13, 13 problematic 226:2 problems 23:19: 24:6: 25:13, 23; 26:3; 29:4; 58:5, 5, 6, 18; 83:22; 113:19; 225:11 procedures 17:17; 34:2, 4, 6, 8, 11; 117:23; 171:24 proceed 87:16 proceeding 4:15; 5:4;

11:18; 12:11; 13:1; 37:23;

38:3; 46:20; 72:16, 17;

92:5, 12: 93:4, 5, 12, 12: 200:4; 202:2; 216:20 PROCEEDINGS 4:2; 7:17; 20:8; 87:5 process 47:15; 51:3, 4, 7, 10: 52:2: 63:12: 75:3, 17. 19; 85:2, 5, 6, 7, 13, 14, 16; 87:17; 136:6; 149:2; 158:18; 166:7; 168:2; 169:14; 172:5, 8, 13, 20; 177:19: 182:9, 13: 210:17, 22, 23; 214:1; 225:16 processes 86:15; 218:19 processing 103:16 procompetition 219:7 proconsumer 215:18 produced 76:23, 210:24 product 7:1; 63:13, 21; 150:5, 14; 158:7; 178:22, products 65:23 profitability 225:23; 227.5 profitable 225:14, 20 profitably 225:8 program 46:1 prohibition 226:7, 10 promote 8:17; 13:6 promoting 14:22 prone 30:12 properly 72:2 proposal 7:22; 11:5; 12:12; 13:11, 17; 14:1, 7; 15:24; 18:12; 20:13; 26:12; 27:23; 28:5; 40:16; 53:6; 86:22; 92:8; 97:6, 8, 9, 21, 24; 110:6; 155:14; 163:5; 164:3; 188:4, 21; 192:3, 4, 14, 22, 22; 209:17; 215:18; 217:2, 10, 16, 18; 218:2, 11, 15; 219:6; 221:2; 224:23; 227:18; 228:4 proposals 11:12; 13:10; 37:15; 53:9; 98:12; 104:2; 210:13 propose 37:14, 16; 50:22; 95:20 proposed 8:2; 11:11, 19; 12:14, 19; 27:2, 19; 31:18; 37:24; 46:19; 50:20; 53:10, 11; 56:6; 69:1, 12; 79:5; 85:4; 97:4, 22; 103:19; 104:6, 18; 106:3, 6; 118:22; 157:20; 169:1; 180:13; 209:14 proposes 8:3, 10; 106:13 proposing 8:18; 9:6; 27:14; 53:13; 56:22; 57:12; 58:8; 85:1; 98:1; 119:14; 223:14; 224:12 protection 63:14

protects 217:12, 12

provide 8:2; 9:7; 10:6, 22;

prove 111:15

proven 34:12

*y*5:6; 56:3, 19, 24; 57:14; 61:18; 62:1; 68:13, 22; 70:5; 72:7, 22; 102:9, 11; 103:7; 104:10; 105:12; 106:10, 24; 108:13, 14; 112:18; 115:10, 19; 120:3; 121:8; 123:1, 9; 126:6, 14; 131:10, 15; 147:17; 151:22; 163:24; 168:23; 177:12; 179:1; 184:19; 189:1; 190:15, 21, 23; 224:2; 225:24; 228:6 provided 18:21; 29:15; 40:14; 53:18; 68:19; 154:14: 159:4: 161:3, 4, 7; 170:20; 184:20; 193:19; 215:3 provider 15:6; 151:14 providers 152:1 provides 9:14: 27:24: 55:24; 58:23; 81:17; 131:12; 160:1; 164:20; 198:20 providing 40:10; 54:2; 55:3; 57:6; 60:24; 78:5; 95:22; 96:18; 100:23; 103:13; 107:13; 113:13; 115:15, 21; 141:8; 158:23; 152:11; 180:9; 189:19; 191:3, 4; 198:18; 207:3: 224:4: 225:17 provision 10:5; 40:13; 47:18; 108:7; 115:24; 147:19; 168:1; 169:3; 185:4; 218:4, 7 provisioning 4:7; 17:10, 14, 16; 23:11; 166:3; 181:10; 208:20; 210:3 provisions 53:18; 71:22; 83:9 PSC 105:19 public 19:15; 74:12, 18; 81:14; 87:19, 22; 91:19, 22; 94:16, 21; 106:7; 112:10, 22; 114:10; 216:3 publicly 74:19; 88:15; 89:9 pull 30:7, 11; 140:24 purchase 9:24; 12:7; 13:16; 14:5; 16:20; 128:19; 134:18; 147:16; 221:12 purchased 129:15; 140:12; 143:10, 15; 168:21, 24 purchases 137:16; 138:9; 147:7 purchasing 103:12; 167:23; 192:9; 219:14; 221:13 purely 173:6 purpose 13:2; 56:21; 83:3; 116:6, 13; 129:9; 141:6, 11; 144:6, 14 purposes 62:10; 162:24;

171:15; 173:19; 178:4; 179:3: 185:16: 188:9. 15: 189:23; 197:15; 198:10, 11; 201:12, 15, 16; 203:21, 23; 211:18; 212:21, 24; 213:3.4 pursuant 5:10; 78:18, 22; 79:14; 87:18 pursue 80:10 pursuing 83:1; 113:1 pushed 70:24 pushing 21:4 put 30:2; 32:13; 41:16; 46:7; 47:3; 50:11; 62:2, 11; 84:15; 130:7; 132:12; 153:9; 155:19; 162:7; 188:4, 7, 20; 195:23; 202:12; 205:21; 206:5; 212:9; 217:4 put-it-right-on-ourframe 59:4 puts 202:15 putting 57:23; 143:4, 5; 190:10; 217:22

O

qualified 82:10 qualifying 74:15 quality 11:10; 25:15; 28:23; 29:5, 14; 30:14; 32:10; 33:14; 39:13; 84:8 quantities 162:8 quantity 162:14 quarter 89:1 queue 23:2 queueing 22:21 quicker 74:9 quickly 45:5; 46:10; 161:20 quid 111:18 quite 44:15; 163:19; 164:24; 181:17; 183:8 auo 111:18 quotation 88:23 quote 9:18; 10:2; 39:18; 71:17; 77:16, 21; 81:12, 13, 23; 82; 5, 6; 83; 9; 88:10; 112:9, 15; 146:20 quote-closing 81:24 quoted 80:11; 88:20; 129:5 quotes 81:24 **quoting 81:20**

R

rack 58:11; 66:13; 128:17; 134:7 radio 216:3 raised 38:12; 82:23; 169:10 rambling 37:5 ramifications 67:21

presentation 91:2; 214:2

range 43:4; 62:4, 6; 64:9 rate 31:1, 3, 7, 10; 43:9; 45:7, 12; 55:16; 96:1; 110:1; 158:1, 12; 171:13; 193:6, 11; 194:2; 205:4; 208:19; 209:9, 10; 210:4, 6, 7, 13, 13; 221:18 rate-base 148:4 rated 194:21; 196:11; 197:1; 198:1, 10; 199:10, 21; 200:19; 202:1, 4, 18; 203:1; 204:13 rates 9:20, 24; 41:24; 43:7; 45:15; 55:14; 96:1; 104:18; 109:20, 21, 24; 185:15, 21; 193:12, 16, 19; 200:5; 217:2 rather 30:15; 72:24; 75:20; 116:17; 137:19; 138:10; 159:2; 163:16; 173:11; 180:9; 198:21; 203:2 rating 196:4; 197:2, 15; 198:10, 11, 12; 201:12, 14, 16; 202:15; 203:20, 23 ratio 205:14; 206:7 **RBOC** 143:11, 11, 14; 226:11 RCMAC 170:22; 174:5; 178:8, 17; 181:3, 8; 185:5, reach 14:21; 22:12; 51:3 reached 11:22 reaches 195:21 read 37:11: 53:23: 73:7: 74:8; 82:7; 85:18; 89:3; 93:22, 23; 94:15; 114:21; 124:4; 126:1; 149:11; 224:23 reading 52:13, 14, 15; 90:18 reads 72:11 ready 63:17 real 18:9; 35:9; 223:17 reality 30:10 really 21:16; 22:3; 26:3, 11; 38:14; 39:11; 41:4; 52:9, 20; 57:15; 61:24; 71:6; 73:9; 76:5; 124:13; 141:2; 149:12; 153:15; 162:15, 17; 165:6; 170:6; 220:20 rearrangement 23:1 rearrangements 178:11; reason 47:12:63:10: 80:14, 18; 148:17; 161:13; 200:16 reasonable 12:13, 20; 28:6; 81:16; 92:9; 225:12 reasons 38:4 rebuttal 4:20 recall 93:21; 116:24; 117:4; 208:21 receive 89:11

received 72:15

receiving 54:7; 199:13 recent 21:12, 14; 171:19; 172:24: 173:4, 13, 14: 177:9, 13, 22; 178:2 recent-change 21:13; 22:1, 15; 169:13; 170:21, 24; 171:3; 172:8, 13, 20; 177:6, 19; 179:1; 180:23; 182:9, 13; 183:1 Recess 59:23; 127:14; 185:24 reciprocal 200:10: 222:13 recite 87:22 recited 184:13 recognize 39:1, 2 recognized 9:17 recognizes 71:18; 92:17 recollection 50:24 recombine 11:6:77:19: 81:7; 91:12 recombined 10:19; 11:3 recombining 189:23 recommend 133:2: 188:3, 5, 7, 21 recommendation 75:13; 112:14, 19 recommends 219:3 reconvene 228:18 record 6:18; 50:14, 17, 19; 60:1, 15, 18; 61:23; 62:15; 68:20; 87:9, 10, 12; 88:6; 89:5, 7, 15, 17; 94:2, 4, 6, 98:21; 100:5, 6, 17, 19, 114:15, 17, 19, 119:3, 6, 8, 15, 17; 120:7; 122:12; 127:16; 145:6, 7, 8; 147:5; 150:15, 22, 24; 184:17, 22, 24; 190:23; 191:3, 22, 24; 192:11, 15, 17; 194:2, 5; 205:4; 209:6, 12; 221:5; 228:21 recording 171:14 recover 180:16; 181:23 recovered 210:7 recovery 95:21; 126:10; 180:14 recoverywise 180:20 recreate 14:18 recurring 49:11; 55:8; 197:17 recurring-cost-study 163:1 redirect 145:4; 213:19; 228:12 reduce 12:15; 50:2, 13 reenabling 182:12 refer 124:9; 127:1 reference 82:4, 6; 102:4; 105:18, 21, 23; 115:7; 123:3; 128:2 referenced 91:11; 94:13;

referring 77:12; 80:4; 107:13; 143:11; 146:24; 189:8 refers 81:10; 119:19; 149:5; 162:15 reflect 79:3 reflected 78:16; 94:8; 105:3; 110:16; 118:12 regard 83:17; 138:6; 140:21; 213:11 regarding 4:12, 19; 7:19; 11:10; 126:12; 186:6; 187:19 region 34:6 regional 63:5 regular 32:6; 136:5; 189:16 regulatory 6:22; 7:15; 71:23; 83:10; 214:15, 16 reinstate 168:5 reinstating 168:8 reiterate 219:3 relate 204:3; 209:16; 215:1 related 23:10 relates 92:12 relating 31:16 relationship 99:23 relationships 222:11 relative 37:6; 152:13; 174:19 relay 66:13 relay-equipment 134:7 release 16:12 relevant 54:22; 61:5; 69:9; 114:13; 116:6; 198:15; 200:8; 202:20 reliable 30:12; 164:11 rely 61:24 remain 76:17 remember 42:20:74:17: 117:19 remote 11:14; 22:19; 36:19; 65:16; 144:12; 201:20 remote-control 132:21 remotely 11:13; 16:2; 36:13; 144:7, 12, 19; 186:21 remove 148:17; 177:21 rename 99:24 rents 163:7 repackage 10:16 repeat 13:22; 77:21; 107:9; 109:12 replace 140:4; 160:9 replicate 41:12; 51:16 report 4:12; 220:8 reports 4:13; 184:14; 209:8 representative 62:2

representatives 117:14

representing 81:3

repriced 10:19 request 46:20; 50:14, 18, 19; 60:15, 13; 61:23. 62:15; 87:9, 11, 12; 88:6, 14; 89:5, 7, 16, 17; 94:2, 5, 6; 100:5, 18, 19; 115:5; 119:4, 6, 8, 16, 17; 150:16, 23, 24; 184:17, 23, 24; 190:23; 191:4, 16, 18, 22, 24; 192:11, 16, 17; 194:2, 5; 205:4; 209:7, 12 requested 4:9: 17:16: 37:17; 112:16; 192:8, 12 requesting 93:7; 105:20 requests 4:23; 112:10 require 50:3, 7; 106:19; 107:16; 135:6; 156:10; 181:2; 205:9; 211:20; 219:4 required 7:24; 22:10; 23:12; 30:21, 23; 39:5; 53:14; 65:18; 66:1; 68:19; 75:22; 107:23; 108:10; 123:24; 135:17; 146:21; 147:5, 16; 180:22; 182:3; 186:15; 189:14, 15; 216:21; 227:22 requirement 107:7; 108:6; 134:13; 135:16; 182:21; 204:8 requirements 8:24; 11:24; 12:11; 13:7, 18; 14:8, 24 requires 134:17; 135:9 requiring 108:15; 217:21 reread 114:21, 24; 115:4 res 90:16 resale 9:11, 13, 14; 10:2, 15; 16:14, 15, 17, 20; 17:5, 6, 11, 13, 16, 22; 18:1, 6; 39:10, 24; 40:13, 13; 41:22; 44:7; 46:1, 11, 13; 108:21; 190:20; 191:12; 219:14; 225:7; 226:6, 23 resale-type 55:13 resemble 97:12 reserve 122:15; 133:5, 6; 204:3 residence 90:7, 10, 21; 167:20 residential 42:7, 8; 96:20; 109:9, 13; 167:3, 3; 176:24 residential-service 176:21 resigned 99:17 resistance 113:13 resold 221:13, 17; 222:12; 224:6; 227:5 resolution 4:11; 12:10; 67:19; 72:13 resolve 12:9; 67:23; 72:12; 75:2 resolving 11:23; 67:15 respect 15:23; 16:13; 19:4; 73:20; 89:12; 90:3;

100:9, 15, 22; 101:7, 11;

102:7; 112:1; 120:1; 134:23; 140:8, 10; 165:12; 185:1, 3; 192:3 respectfully 93:3 respond 7:18; 11:9; 77:22; 207:22 response 70:4:71:12; 95:16: 98:23: 125:15, 17; 126:1 responses 4:24 responsibility 18:5 responsive 38:15; 48:14; 49:22 restate 74:9; 113:10 restriction 90:18 restrictions 17:10; 78:20 restrictive 17:7, 17:75:1 result 84:7; 160:18; 203:2 resulted 52:8; 84:6 resume 4:10 retail 9:11; 10:1, 16, 23; 28:4; 31:4, 10; 32:7; 40:14, 18; 41:12; 44:5, 9, 12; 45:1, 7, 9, 15; 96:1; 109:20; 116:12; 180:10; 208:20; 221:17 retail's 41:24 retired 99:21 retranslate 166:16 return 12:1; 72:15 reusable 185:2 reuse 183:9, 15, 17, 19, 22; 184:1, 5, 10 reusing 184:7; 185:11 revenues 222:4 reverse 149:2 revised 4:22 riding 162:19 right 20:1; 29:2; 41:21; 47:10; 57:19; 63:7; 70:14; 80:3; 89:2; 104:4; 121:22; 125:19; 129:16; 132:7; 134:14; 135:11; 136:2, 14; 138:20; 142:6; 148:19; 157:5, 9; 159:17; 175:13; 187:10, 13; 193:1; 195:19; 202:19; 203:3; 224:2 rights 38:24 riser 189:13 risk 217:4, 23; 221:23 risks 221:16; 222:7 road 161:5 robot 64:12, 17: 133:11: 134:11 robotic 63:22; 64:3 robots 63:9; 64:5; 66:16; 129:18 rocket 47:1 role 214:16 room 6:8; 8:22; 18:14, 18, 19; 26:17; 32:4; 50:5; 58:23; 114:23; 128:4;

107:4; 117:8; 128:8

115:9; 120:10, 17

referred 16:4; 71:12:

163:14, 22; 164:5, 9, 14,

20; 165:20; 187:21, 24;

188:2, 11; 189:2, 10, 15,

20, 22; 209:23; 213:12 rooms 218:19 Ross 125:16, 23 roughly 31:9; 44:1; 96:3; 183:10, 11 routes 18:2, 3 routinely 140:22 routines 172:6 routing 104:15; 200:22 rule 69:20; 136:10 rules 27:18:85:10: 200:11 ruling 107:22 run 24:12; 26:10; 33:1; 59:13, 14, 18; 156:24; 172:6; 177:17; 186:16, 18 running 25:18; 29:19; 31:9, 10; 34:19; 36:1; 95:2; 104:17; 139:6, 7, 16; 157:12; 165:19, 21; 194:7 runs 45:2, 7; 160:11 rural 62:11

S

S 13:3 **SAC 210:8** safe 155:6 sake 141:15 sales 19:23 salesman 160:5 Salinger 159:15, 23; 161:2 salt 212:6 same 18:3; 32:8, 8; 34:7; 40:19; 42:23; 51:18; 54:18; 55:23; 56:5, 23; 57:1, 7, 8, 13; 58:11; 63:22; 82:24; 128:16, 17; 129:11; 135:15, 17; 161:3; 162:14; 165:13; 181:20, 20; 182:2; 188:2, 11; 202:1; 206:3; 207:8; 213:8, 9; 216:22; 217:16; 219:5, 14, 21; 220:19; 221:5,7 same-same 199:17 sample 62:2, 3 San 29:11 satisfaction 91:10, 19; 94:22 satisfied 91:8, 23; 94:16; 111:15 satisfies 109:16 satisfy 74:4; 108:18 **savings** 190:8 saying 31:16; 40:1; 41:13; 47:21; 84:13; 86:1, 15: 109:5; 163:20; 174:5, 23, 24; 182:5; 203:5; 204:1 scenario 49:13:64:22: 103:24; 104:3, 5, 10;

scenarios 169:1: 185:3 schedule 4:22: 35:20, 23: 94:8 scheduled 5:1; 91:18; 94:14; 117:2 scheduling 4:19 scheme 41:19, 23; 45:13 science 47:1 scope 126:11 se 146:2; 226:13 Second 8:18; 71:17, 17; 77:4; 81:12, 19; 95:23; 105:8; 112:8; 146:19; 193:11; 195:20; 218:2 secondly 89:12 secrets 64:8 Section 9:1; 72:5; 75:14; 86:24; 87:4, 6, 18; 88:4; 89:11; 90:16, 17; 113:6, 15 secure 26:13; 189:1 security 18:19; 22:11; 23:20, 21; 24:6; 58:5, 18; 59:15; 138:22; 179:13; 188:8, 15 seeing 118:23 seek 88:4 seeking 105:19 seeks 89:10 seems 40:8; 82:22; 83:6, 14; 123:21; 223:15 Seidenberg 88:20 selects 147:12 sell 148:20, 21; 159:12, 19 selling 64:19, 21 sells 103:6; 147:8, 12 semiofficial 100:8 sense 110:13; 158:2; 173:13, 13, 14; 215:22 sensitive 35:19, 23 sent 125:18; 199:23 sentence 71:17; 75:7; 77:16; 80:11; 81:3, 12, 20; 82:4; 86:3; 105:17; 112:9; 146:20 sentences 13:22; 81:11; 82:7 separate 13:19; 14:9 separating 174:1 September 88:22 series 28:16; 51:15, 19; 211:22, 24 serve 25:20, 20; 37:5; 116:12; 133:24; 218:21 served 46:16; 54:14; 155:12; 158:21; 159:15; 160:11; 167:11; 195:2, 13 service 9:11; 11:8, 10; 12:7: 14:16: 15:1, 10: 17:13, 15; 18:23; 19:3; 21:20; 22:2; 25:15; 26:2;

27:24; 28:1, 23; 29:15;

32:10; 33:14, 15; 39:13;

40:10, 13; 41:12, 15; 42:3;

43:12; 44:14, 24; 54:3, 6,

187:20

142:16

seven 30:5; 141:22, 24;

7, 11, 12; 55:5, 6, 23, 23; 56:3, 7, 9, 23; 57:4, 17; 61:14; 63:2; 65:23; 74:12; 78:5; 81:14; 84:7; 90:9; 91:19, 22; 94:16, 21; 95:2; 102:11; 103:7, 16; 106:7; 110:2; 112:11; 115:15, 24; 116:4; 122:2, 2, 9; 131:15, 18; 132:1; 139:20; 144:6, 6; 151:8; 152:7; 154:5; 159:1, 17; 160:1; 161:3, 7; 162:18, 20, 20; 166:4, 5, 18; 167:3, 21; 168:1, 2, 5, 8, 11, 14, 22, 22, 23; 169:4; 170:3, 7; 171:13; 172:19; 180:9; 185:4; 193:7; 194:4, 7; 195:3; 198:3; 199:5; 205:6; 217:3, 12, 21, 23; 218:5; 219:14, 21; 220:19; 221:3, 8, 13, 19; 222:16, 22; 223:5; 224:2, 5, 11; 225:7, 10, 17, 19, 24; 226:4 service-order-entry 166:7 ordering/processing 103:21 service-provisioning 185:3 service-quality 28:12; 31:15 services 7:5, 7; 8:9; 10:1, 9, 18, 21; 15:20; 16:15, 19, 21; 17:19; 22:7; 25:21, 24; 28:4; 30:24; 31:5, 11; 32:7; 40:18, 19:44:20, 21: 46:24; 53:24; 54:16, 22; 57:5, 23; 61:21; 78:8, 12; 90:4, 24; 96:19; 101:4, 8, 18, 18, 20; 103:12; 105:21; 109:9, 14, 21; 115:20; 123:4; 129:4; 139:18; 147:19; 151:5, 5; 152:1; 176:16; 189:2; 208:20; 215:3; 218:7; 221:17; 222:10, 12; 224:6; 225:18; 227:5 serving 56:5; 57:1, 13; 58:1; 103:9; 154:18; 159:22; 160:14; 167:5; 177:1; 195:1; 200:17; 202:23; 209:13 sessions 51:10 set 8:12; 17:14; 33:4; 45:5; 84:6, 7; 91:7; 102:5; 110:21; 111:14; 113:18, 19; 165:24; 166:16, 20; 172:4; 178:7; 184:13; 186:7; 207:1; 212:5; 219:17; 225:6; 227:6 sets 13:9; 89:24 setting 48:7; 104:14; 171:19; 203:4 settlement 109:2 setup 59:1; 164:8, 14;

seven-foot 141:20: 142:10:155:24 seven-foot-tall 155:22 several 51:22; 169:10 share 48:23; 49:2, 10, 14, 18, 24; 214:20 shared 8:5; 15:17; 120:5, 10, 16; 121:8, 14, 20; 151:4; 205:9 sharing 8:21; 50:10 shed 109:19 shelf 101:24; 140:24 shoes 19:14 shoots 30:4 short 105:13; 214:24; 223:3; 228:2 shortly 211:3 shot 170:17 show 65:19; 187:6; 209:1 shut 175:10 sic 149:23 side 41:8; 111:8; 119:20, 21; 149:6, 15, 18; 150:12, 13; 152:22; 226:6 sides 134:10 sign 46:13; 166:2 signaling 8:7; 121:8, 10, 13, 13, 15, 15, 17, 19; 151:6 significant 13:9; 40:1 significantly 44:6; 50:2 signs 167:20 silence 86:3 similar 10:9, 10; 66:22; 191:3; 216:11 simple 35:9; 90:19 simpler 160:17 simplest 37:20 simplicity's 141:15 simply 9:10; 16:15; 40:2; 44:21; 69:7; 73:23; 84:13; 94:12; 131:19; 163:17; 167:10; 193:20; 222:15 simulate 212:7 single 13:14, 23; 14:4; 49:8; 56:17; 64:16; 113:20; 115:8; 184:9; 188:13; 194:9, 16, 20; 195:16 sit 87:22; 88:11 site 63:3; 196:8 sits 178:16, 24 **Sitting** 4:16; 62:17; 68:4; 72:18; 82:11; 83:23; 104:12; 109:4; 151:19; 193:20 situation 24:19; 48:8; 86:5; 132:20; 143:4; 184:3; 202:22; 222:18 situations 83:21; 182:20 six 90:6, 17, 22; 91:13; 201:4, 8, 12 six-year 91:6; 92:1; 95:3; 98:12

size 155:9; 156:20 slack 43:5 slightly 33:5; 64:4; 84:19; 213:5 smaller 187:17; 225:13 smallest 156:20 smart 175:5 so-called 9:7; 17:21; 178:17 soft 177:3 software 103:17; 169:17; 182:2 software-driven 171:23: 178:3 solar-powered 21:24 solder 29:22 solely 92:12; 209:17 somebody 39:14; 137:3 someday 149:4 somehow 39:14 someone 25:3; 56:8 someplace 26:9 Sometimes 177:5 somewhat 32:15; 110:5; 224:14 somewhere 45:2; 132:14; 134:1; 161:5; 195:4 son 214:22 soon 46:3 sorry 38:14, 16: 45:11; 99:5; 107:9; 116:2; 210:20 sort 46:10; 55:12; 105:1; 159:3; 180:23; 181:20; 184:14; 193:21 sound 10:7; 129:16; 160:4 sounded 224:24 sounds 150:2 South 138:13, 21; 139:8, 14, 23; 183:11 **space** 49:9; 50:5; 59:14; 116:19; 132:15; 133:23; 134:1; 141:9, 17; 142:8; 155:19; 163:8, 18; 164:21, 22; 177:4; 189:13, 13; 190:9, 15 speak 75:21; 87:20; 88:18; 104:24 speaks 111:24 spec 124:15 special 25:21; 34:24; 35:1; 176:15 specific 13:9; 40:6; 61:14; 73:16, 22; 74:21; 79:23; 85:9; 92:8; 93:7, 7; 106:4; 140:24; 144:6; 178:13; 181:24; 182:1; 189:24 Specifically 14:10; 24:3; 32:12; 70:23; 84:15; 115:10; 126:7; 152:17; 160:22; 181:2; 193:23; 214:15; 227:1, 3 specifications 33:9, 13

113:17; 135:20; 163:15;

165:23; 16**7**:10; **196**:**4**

specificity 88:12 specified 189:24 specifies 108:9 specify 171:6, 8, 10, 12, 14, 15; 186:22 speculate 93:24 speculation 109:5 speculative 110:5 speeches 85:19 speed 171:8; 178:10 spite 18:20 spot 64:6 **Sprint** 4:5; 214:12, 14; 215:5, 10; 219:3, 23; 220:8, 13, 22; 223:5, 9, 18; 224:1; 225:15; 227:9, 13, 17, 18 Sprint's 214:17; 215:1, 14, 16, 18; 216:19; 217:2, 10; 219:6 square 49:9; 161:22 staff 51:11; 65:10; 85:12 stand 167:9; 228:19 standard 66:7; 124:15, 18, 18; 162:6; 176:20 standardization 164:13 standardized 26:13; 58:24 standards 9:12; 84:6, 7, 8; 164:5; 211:16 standpoint 198:12 Starr 100:1 start 5:4, 6; 42:21; 53:8; 78:6; 83:23; 84:14; 86:12; 117:7; 149:17; 195:1 started 24:5 starting 43:23; 46:4; 149:21 starts 37:7 state 6:18; 49:6; 54:20; 79:15; 82:22; 84:12; 86:13, 14; 95:14; 97:10; 100:6; 108:23; 110:8; 117:13; 203:17, 18; 205:1; 220:2; 224:20 stated 7:14; 9:18; 38:5; 47:22; 68:15, 18; 85:20; 97:5; 99:9; 108:22; 129:14; 151:17; 161:13, 22: 190:19 statement 5:10, 13, 21; 7:12, 19, 21; 11:18, 21; 12:23; 13:2, 8; 19:5, 7; 36:11; 37:12; 50:24; 52:9, 15; 56:23; 68:18; 69:2, 17; 70:7, 21; 71:10; 72:2, 10, 11; 73:15; 74:6, 17, 19, 24; 76:8, 10; 77:11; 80:19; 84:20; 85:24; 88:12, 19, 21; 89:23; 94:12; 98:13, 23; 99:10; 100:9, 16, 21; 101:6; 102:7; 103:22; 105:7; 107:12; 108:14; 110:17, 22; 111:14; 112:20; 114:9; 115:6, 16;

125:12; 128:1; 135:5, 7; 139:1; 146:18; 147:2; 152:20: 157:21; 161:22; 166:1; 169:2, 9, 20; 172:10; 177:23; 178:5; 180:10; 214:6 statements 5:19:37:3; 73:8; 87:20, 22; 112:23; 114:10; 214:24 states 80:11; 137:23; 145:19; 225:16 **stating** 215:2 status 4:12; 86:24 statutorily 75:13 stay 6:20; 221:6 steel 30:3 step 34:16; 110:12 steps 168:4; 218:3, 5 Stern 5:14: 6:9, 14, 14, 24; 7:1; 9:3; 12:22, 24; 13:1, 24; 14:7; 20:13; 53:4, 24; 54:15, 19; 55:1, 16, 20; 65:6, 11, 15, 24; 66:17, 20; 67:2, 7; 77:2, 5, 9, 13; 78:1, 13, 22; 79:1, 8, 12, 16, 21; 80:5, 14, 20; 81:1; 82:14; 88:13; 89:19, 19; 90:13; 91:3, 15, 21; 93:21, 22, 24; 94:7, 18; 95:4, 9, 15, 17; 96:3, 6, 21; 97:2; 98:3, 8; 99:4, 13; 101:2, 9, 12, 17, 21; 102:4, 14, 19; 103:5, 15, 23; 104:4, 6, 12, 23; 105:5, 16, 22; 106:1, 5, 9, 16, 22; 107:2, 9, 18, 21; 108:1, 5, 8, 11, 16; 111:5, 7. 23, 24; 114:20, 24; 115:12, 17; 116:2, 8, 13; 117:5, 16, 21; 118:16; 119:18, 23; 120:6, 13, 21; 121:24; 122:4, 8, 14, 17; 123:6, 12, 20; 124:4, 9; 125:8, 13; 126:2, 5, 19; 127:1, 18; 130:1 Stern's 97:14 sticking 223:6 still 16:21; 18:7; 37:12; 58:17; 107:24; 118:2; 120:9; 174:2; 175:10, 14; 176:4; 202:1; 206:12 **stop** 40:4; 48:6; 69:21; 122:14; 148:18; 193:10 stoppage 146:6 stops 53:12 STPs 15:21; 118:8; 121:4, 11, 12, 15 straightforward 31:19 strategic 86:6, 21 strategy 46:12; 50:13; 89:9; 224:19 street 199-9 stress-tested 212:18 stressed 200:14 strictly 210:9 strike 94:10; 142:23;

structure 27:15, 15; 28:6; 210:5, 6; 221:18, 19 structures 48:10; 110:1 struggle 225:19 studied 105:2 studies 185:22 study 46:14; 67:1; 104:22; 105:4; 185:17, 17 stuff 149:12; 184:5; 209:2 subject 126:10 **sublet** 163:8 subletting 163:5, 15, 16 submission 6:2; 38:5; 83:5: 189:9 submissions 5:5; 163:1 **submits** 75:15 submitted 4:20; 51:24; 76:8, 10; 87:4; 122:24; 125:16; 185:18 subplatform 8:4; 15:2, 8, 15; 41:8; 98:6, 8; 117:8; 118:1, 13, 24; 119:10, 18; 120:9; 149:5; 150:17; 151:1; 153:4, 17, 21; 223:11 subscriber 133:2, 9, 15; 186:8, 12, 13, 13, 19, 20 subscribers 187:6, 8, 11, 15 Subsections 9:22 subsequent 87:5 subset 187:17 substance 85:2 substantial 8:17 substitute 9:10 suburban 42:18; 62:12 successful 185:11 sufficient 141:9 sufficiently 225:7 suggest 188:16; 216:11 suggested 20:16, 17; 58:5; 74:4; 75:23 suggesting 42:1; 46:12; 47:8; 56:8; 63:6; 99:22; 173:21 suggestion 93:11 suggestions 37:22 summary 12:12; 19:8; 90:11 superiority 16:14 supply 66:10 support 12:1; 52:12; 71:23; 72:5, 6; 73:5, 11; 83:10; 112:2; 129:3; 168:3, 16; 171:2, 22; 184:19; 189:13 support-system 180:8 supported 53:1; 74:21 supporting 74:22; 86:5 suppose 21:21; 23:13 Sure 13:24; 33:11; 41:2; 49:5; 61:22; 70:10, 12; 71:15; 77:5, 14; 86:12;

87:10; 116:3; 124:13;

125:19; 131:5; 147:4; 149:4; 151:21; 153:15; 180:20; 191:14, 20; 193:15: 210:4, 6, 8: 220:14; 223:8; 224:22; 225:2; 227:10 surrender 113:5 surrounding 12:9; 30:9; 190:9 suspect 82:1 sweeping 139:3 switch 13:13; 14:2, 15, 17; 15:4, 5, 7, 14, 17; 18:10; 21:12, 17, 20; 22:1, 13; 23:5, 7; 24:12; 31:24; 33:19; 41:8; 56:18; 58:1; 71:4; 98:5, 8; 103:11; 115:15, 19; 116:14, 17; 117:7; 118:1, 6, 8, 13, 23; 119:10, 18, 20, 21; 120:8; 139:5; 140:4; 144:11; 149:5, 7, 15, 22; 150:5, 13, 16, 17, 18; 151:1; 153:4, 5, 13, 21, 23; 154:7, 8; 158:22; 160:16; 165:18; 166:12, 22; 169:24; 170:1, 4, 6, 8, 20; 171:5; 172:9, 12, 14, 17, 21; 173:1, 5, 6, 8, 11, 11, 15; 174:2, 3, 9, 12, 13, 17, 18, 20; 175:1, 7, 17; 179:12; 182:10, 12; 186:20; 189:23; 196:1, 3, 9, 14, 15; 197:6, 10; 198:9, 17, 20, 23; 199:1, 8; 200:7, 18; 201:17, 18, 20, 21, 23; 203:13, 21; 204:2, 4; 207:2; 223:11; 224:19 switch-related 171:17 switch-subplatform 117:10; 149:23; 152:8; 153:12; 192:3 switchboards 156:23 switched 8:4; 15:2, 7; 46:21; 56:11; 57:17, 21; 171:5, 20 switches 14:21; 35:1; 115:22; 116:5; 127:3; 130:16; 139:13; 181:12, 13, 14; 204:6, 8, 20 switching 9:9: 21:20: 22:2, 9; 27:12; 40:24; 41:1, 6, 7; 115:11; 154:14; 161:16; 168:12; 170:2, 7; 172:2; 179:19; 183:23; 206:7, 8; 207:17; 208:14; 217:19; 221:20; 222:3; 223:12, 19 switching-platform Sworn 6:10; 127:19; 145:10; 213:23 system 31:22; 62:23; 171:22; 172:3; 178:7; 181:3,8 systems 17:15; 21:13; 22:2, 5, 8, 23; 23:8, 9; 25:20; 103:17, 18; 149:19; 168:3, 17; 171:2; 178:19; 180:12; 181:7, 9, 17;

182:1, 7, 18; 185:12, 13, 14 T T1 130:17 tabbed 125:24 table 6:7: 228:2 tailored 84:16:110:7 159:14; 181:12; 196:12; 206:6; 215:19; 228:20 183:16; 211:21 45:22; 58:3; 64:2; 70:15, 16; 78:15; 82:20; 86:10; 90:6, 9, 9; 91:1, 2; 104:7; 107:18; 130:7; 136:6; 139:6, 7; 141:1; 142:16, 158:19; 159:8; 168:7, 9, 10, 13; 170:19; 172:2; 179:10, 21; 180:4, 5; 181:24; 202:10, 10; 203:19; 204:15, 16; 212:16; 215:23; 221:8 tall 155:24 tandem 41:1; 43:20 tandems 8:8 8; 202:20; 220:5, 12, 12 Tech 19:18 57:1, 7; 59:17; 106:24; 123:16, 18 63:10; 106:21; 123:24; 20; 208:1 11; 187:2 technology 36:16; 63:10; 136:3; 208:9, 14 teeth 35:10 **Telecom** 181:13 **Telecommunications** 9:2:10:1:19:17:20:2: 68:24; 75:11, 12; 215:3; 217:20 56:4; 63:3; 66:8; 138:3; 144:15; 178:12; 194:23; 197:13; 207:1; 214:18 Telephone's 11:17, 21

talk 22:8; 44:13; 118:5, 6; talked 20:13: 26:6: 32:11: 67:9; 97:8; 109:22; 181:8; talking 24:4, 8, 18; 30:15; 32:4, 5, 6; 39:12, 17; 41:4; 24; 145:12; 154:3; 157:19; tariff 44:5, 7, 9, 12; 78:18, 23; 79:2, 5, 14, 17; 80:1, 6; 95:5; 102:17; 108:3, 5, 7, technical 22:3, 18; 33:13; technically 33:11; 57:13; 124:2, 7, 12, 14, 18; 126:9, technicians 66:3; 136:9, **Telephone** 19:19; 28:16; telephone-office 134:8 Teleport 4:5 television 216:3

176:22

117:9, 12; 121:24; 122:23; strikes 12:3; 82:20

tells 201:11

TELRIC 162:23

temperature 190:12

ten 132:2; 134:2; 141:15; 142:3; 156:8; 208:3 ten-minute 35:15; 59:21 term 24:4; 59:17; 75:19; 120:10; 169:22 term-commitment 17:1 terminal 172:2, 7; 186:22 terminated 157:1 terminates 219:23 terminating 58:11, 12; 197:21; 222:13 termination 18:18: 24:20; 157:3 terminations 18:16 terms 28:20; 71:2; 79:3; 88:16; 137:3; 139:3; 144:13; 165:8; 173:9; 175:2; 193:15 test 31:21; 158:9 tested 130:16 testified 7:16; 13:1; 20:3, 7; 69:6; 73:10, 24; 74:23; 96:7, 22; 97:3, 5, 15; 111:20; 115:3; 116:22; 123:14; 167:8, 23; 208:18 testimony 4:20, 22; 13:3; 17:9; 20:18; 26:21; 69:7; 97:2; 114:22; 214:2 testing 31:16, 17, 19, 20, 22; 32:3, 7; 63:12, 15; 211:16 tests 141:3; 211:20, 21, 22, 22, 24; 212:3; 213:6 Texas 201:22 thanks 37:2; 127:22 theme 216:10 then-proposed 120:1 Theoretically 55:18 theory 30:16 thereby 14:21 therefore 66:18; 186:10; 187:5; 218:11 thinking 184:9 third 25:10, 22; 32:10; 58:18; 105:17; 196:10 third-party 23:17; 24:9, 14; 25:9; 58:4; 137:17, 18 though 124:6; 161:1; 164:5; 175:1; 206:2; 210:24; 213:7; 223:17; 226:2 thought 36:17; 48:20, 22; 90:14; 104:13; 136:24; 150:4, 7, 9; 173:9; 190:6; 191:8; 208:4 thoughts 214:21 thousand 183:11 thousands 155:7 Three 5:18; 48:21; 53:19, 21; 61:19; 63:6; 97:24; 98:9, 10; 129:17; 167:20; three-digit 201:2 three-pins 160:19

three-year 53:7; 54:7, 9; 98:7 throughout 14:13; 34:21; 59:8; 179:19 Thurston 127:9, 11; 143:23; 145:1, 2; 213:16, 18, 24; 228:12, 13 tie 32:13, 18; 33:1, 5; 156:19, 23; 157:22; 165:19, 21; 181:10; 186:16, 20; 187:3, 13, 16; 209:16, 16, 18, 19; 210:3, tie-cable 156:20, 22: 186:23 tie-cabling 165:15 tie-ins 181:15 tied 180:12 ties 178:24 times 30:5; 108:23; 111:4; 146:7; 168:18, 19 timing 86:11; 88:16 title 19:11; 134:20; 135:9, 18; 147:14; 214:14 today 4:16; 5:11; 7:18; 16:5; 22:16; 23:22; 27:20, 24; 28:3, 10, 16, 22; 29:24; 36:9; 39:3; 47:4; 68:4; 72:19; 79:13; 80:23; 82:12; 83:23; 109:5, 23; 114:21; 122:18; 123:15; 137:1; 144:7, 10; 151:8, 19; 215:8, 19; 216:23; 219:6, 24; 227:2; 228:17 today's 4:6; 5:4; 62:10; together 21:19; 23:16; 28:3; 41:16; 43:13; 56:15; 57:24; 84:15; 131:1; 149:13; 152:11; 153:9; 162:8; 166:23; 180:12; 186:23; 194:14, 16; 196:19; 206:12; 207:9; 223:13, 24; 224:15 told 95:17 toli 47:4; 202:14; 203:1 tone 33:22, 22, 24; 56:19; 175:10, 17, 24; 176:5, 13, 17; 177:3, 8, 9, 12, 15, 21; 182:18; 196:2, 14; 197:5; 198:21; 201:22 took 49:6, 8 tool 16:24 top 66:12; 95:10; 132:6 topic 4:6; 28:13; 29:18; 30:13; 205:3; 215:21; 225:5 total 63:8; 64:11; 105:14 totally 86:12; 221:9 touch 141:5; 145:14 touching 65:12 touted 132:10 towards 49:22 town 29:8 trade 64:8

trade-offs 109:1; 110:9

transcript 76:23; 114:21 transfer 134:20; 135:9, 18; 160:14, 16; 166:4 transition 160:23 translations 166:11, 14; 169:7 transmission 29:5; 135:13; 136:15, 18; 139:14; 143:5; 189:20, 21; 190:6 transmitted 162:13: 199:7 transparent 198:13 transport 8:5, 6, 7, 12; 15:17; 18:11; 27:4, 5, 12; 28:2; 41:1; 56:2, 10; 57:6, 9, 24; 120:5, 10, 17, 18, 21, 24; 121:2, 3, 8, 14, 20; 123:1, 23; 126:8; 144:19; 151:4, 4, 12, 19; 152:1; 154:12; 176:15, 18; 193:13; 195:24; 198:19; 205:8, 10, 15, 18; 207:10, 18; 223:13; 224:15, 20 transported 57:20; 196:9; 199:13 travel 195:8 traveling 194:19; 195:16 travels 196:7 trials 63:16 trick 57:15 tried 30:8; 68:3; 75:5 triggered 91:7 triggers 166:20 trouble 31:23, 24; 32:1; 45:11; 86:4; 136:16; 209:7 trouble-report 31:1, 3, 6, 10; 208:19 troubles 30:15, 18 true 15:12; 16:18; 18:1; 31:19; 33:16; 78:18; 79:1; 87:3; 94:8; 107:2; 135:8; 137:15; 138:14; 161:18 trunk 119:20, 21; 149:6. 18; 150:12, 13; 151:3; 205:11 trunk-port 149:15 try 68:1; 71:7; 72:12; 77:2; 85:15; 183:17, 18; 212:6 trying 16:15; 41:17; 47:20; 48:14, 17; 49:9, 21: 57:16; 67:18, 18; 75:2; 84:20; 85:16; 90:20; 114:2 turn 125:24; 174:13, 18, 20; 175:5; 177:8, 9; 179:11; 182:17; 213:10 turned 175:17turning 53:3 two 7:22; 13:22; 20:1, 4; 21:18; 22:5, 8, 8, 22; 23:1, 16; 29:13; 38:23; 39:20;

traditional 18:13

222:14

traffic 18:3, 4; 43:16;

208:10, 12; 219:24; 220:1;

40:6, 8, 9, 9; 48:9; 55:2; 62:12, 24; 63:2; 78:4, 15; 81:11; 82:6; 95:12, 18; 99:23; 102:10; 109:22; 119:8; 120:2; 127:8; 129:15; 141:22; 142:16, 17, 18; 152:16; 155:21; 167:23; 174:11; 178:19; 179:20; 180:6; 181:12; 193:12; 213:5; 221:8, 10; 222:19 tying 157:15, 16 type 16:3; 21:22; 47:23; 58:8; 63:23; 160:23, 23; 162:2, 18; 171:9, 14; 181:20; 188:21; 200:21; types 22:9; 28:17; 48:12; 93:13; 129:22; 136:18; 171:11; 179:2; 208:8, 11, typical 131:16; 160:7 Typically 66:11, 129:5; 130:16; 135:2; 138:16; 139:19; 146:3; 164:10

U

ubiquitous 77:18; 79:13; 80:12; 94:24 ubiquitously 76:3; 77:24; 78:19; 80:17; 102:16 ultimate 71:2; 116:16 ultimately 75:15 unable 204:10 unavailable 103:3 unbundle 169:24; 173:15; 174:1, 8 unbundled 7:2; 9:20, 23; 13:12, 16, 19; 14:2, 5, 9, 11, 11; 15:1, 10; 24:11; 27:3, 3; 30:20, 22; 31:2, 5, 8, 13; 33:10, 12, 17; 34:3, 5, 7; 35:11; 40:12; 79:18; 80:9; 81:17, 19; 102:11; 107:13; 120:4; 123:22; 144:8; 160:8, 15; 165:16; 166:22; 168:12, 24; 174:3; 215:6; 217:19, 19; 221:1, 20; 224:1; 226:1, 4; 227:17 unbundled-loop 208:20 unbundled-networkelement 4:7 unbundled-switch 166:17, 17 unbundling 20:5; 21:11; 169:13, 16, 17, 18; 173:9, 14, 18; 174:1 unclear 17:12; 37:13; 225:4 uncombined 54:14, 17 under 9:1; 14:15; 18:5, 6; 31:19; 32:10; 33:14; 34:20; 40:13, 15, 21; 41:24; 44:4, 7, 9, 12;

18; 82:1; 118:12; 140:19; 147:7, 13; 156:6; 169:1; 192:22; 207:14; 217:2, 17 undergoing 211:16 underlay 113:12 underlie 113:2 understood 95:24; 150:9; 177:24 UNE 4:11; 7:19; 8:2; 9:7, 8, 8, 10, 13, 17; 10:5, 12; 11:2, 11; 14:18; 16:14, 16; 17:5, 7, 12, 13, 18, 21, 22; 18:2, 5, 8; 39:10; 40:21, 23; 42:12; 43:6; 45:10; 46:7, 11; 47:9; 48:13; 54:8, 12, 22; 55:13; 60:21; 61:11, 13; 62:5; 68:24; 71:2, 3; 72:7; 76:4; 77:24; 78:6, 8, 19; 79:14, 17; 94:24; 96:1; 100:23; 102:9; 103:3, 6, 14; 105:12; 106:24; 108:13; 109:23; 113:13; 144:13; 150:18; 152:21, 22; 190:19; 191:11; 192:23; 193:12, 19; 222:3; 223:3; 228:3,6 **UNE-combination** 219:15 **UNE-combinations** 37:14 **UNE-link** 36:14 UNE-P 11:19:70:20 UNE-platform 40:15; 46:16; 102:17; 107:6 **UNE-port** 36:14 UNE-Ps 38:1; 39:15, 18, uneconomic 9:15; 39:23 UNEs 7:24; 8:9, 11, 12, 13, 20; 9:12; 10:21, 24; 11:3, 13; 12:7, 15, 18, 20; 16:3; 38:19, 20; 40:20; 41:14, 14, 19; 47:18; 68:14, 22; 69:22; 70:6; 92:7; 106:11; 108:20; 109:20; 126:9; 146:24; 149:6; 166:6; 216:21; 221:7, 12, 16; 222:5, 9, 20 unfair 118:18; 119:2 unfunctional 175:20; 176:2, 4 uninstalled 128:22 unions 145:16 unique 133:14 unit 128:6, 13, 20; 130:8; 156:15, 15; 159:19; 213:7 unit's 213:9 units 155:14, 20, 22; 156:9; 157:16; 158:24 universe 139:11; 158:19; 179:8; 184:8 unless 106:12 unnecessary 217:19 unofficially 99:8

unreasonable 47:17

three-way 171:7

54:12, 14, 17; 65:9; 75:10,

unto 53:10; 154:3; 190:14 up 6:20; 24:24; 26:16; 29:13; 30:22; 31:22: 33:4, 20, 23; 34:17; 43:17; 46:13; 48:7; 50:12; 55:7; 56:22; 58:21, 22; 59:10; 65:19; 67:22; 79:19; 104:14, 17; 133:4, 11; 134:22; 140:21, 23; 141:5; 153:19; 154:13, 14; 155:9; 157:8, 8; 161:23; 166:2, 16; 167:20; 170:9; 171:19; 172:4; 186:7; 187:6; 188:16, 23; 198:2; 200:6, 20; 202:16; 203:4; 204:11; 205:22; 206:5, 13; 221:24; upgrades 91:18; 94:13,

20, 22 upon 4:12; 10:7; 11:1, 20;

43:15; 44:23; 52:11; 85:5; 91:17; 97:3; 110:10; 121:4; 202:14; 204:20 urban 62:9

usage 10:18; 43:20; 44:1, 4, 8, 10, 17, 17; 45:1, 1, 4, 7, 9, 12, 14, 18; 46:14, 23; 47:7; 220:9

use 15:3; 22:23; 26:14; 27:9, 11; 29:23, 24; 34:9; 40:11, 12; 41:14, 14: 43:7; 57:2, 8, 14; 58:22; 59:1; 62:5; 66:5; 101:22; 121:9, 10, 12; 123:13, 15; 131:17; 132:12, 16, 18, 22; 133:17, 18; 138:17; 140:6; 143:2; 144:7, 10, 13; 146:13; 153:4, 12; 159:18; 162:6; 164:1, 10, 17; 165:2, 4; 169:23; 175:19; 177:17; 184:1; 188:8; 192:23; 194:6, 10; 199:2; 212:9, 11, 20, 24; 215:5 used 22:5; 24:4; 26:23; 29:22; 34:4; 51:3; 63:24;

65:6; 66:8; 76:16, 18; 78:5; 81:9; 85:6; 120:11;

124:19; 133:21; 144:15; 162:4; 169:22; 174:7, 17; 179:1; 187:17; 209:19; 212:17; 215:23

useful 15:9; 115:14, 17, 23

user 161:10; 166:15; 182:19; 195:1; 196:13, 16; 197:4; 206:24; 221:24

users 25:16, 20; 28:1, 4, 10; 30:24; 56:15; 57:11;

131:18; 132:1; 134:1; 155:12; 200:20; 207:9

uses 15:16

using 10:21:11:10; 15:1, 10; 16:23; 21:11, 13; 56:5; 66:19; 115:22; 118:1;

124:23; 129:23; 133:3; 155:13; 164:18; 166:5;

168:16; 169:17; 172:24; 173:24; 174:22; 179:11; 185:5; 188:22; 199:4;

206:3; 221:2, 12; 222:20; 224:1; 226:1 usual 37:4; 176:24 usually 69:16; 157:12 utilize 64:2 utilizes 123:17

value 218:17, 22 variability 28:18 variable 28:22 variation 32:24; 33:4 variations 32:21; 40:16 varies 43:21 variety 11:6; 50:10; 180:7; 212:4 various 10:18; 12:19; 63:16, 24; 90:21; 103:20; 116:23; 165:24; 169:1, 11, vary 17:15; 43:21; 110:9, 10; 154:20; 155:1 Vasington 4:17; 222:23; 223:2 vault 189:13 vendor 16:3; 67:7; 137:9, 18; 138:18; 178:24 vendors 20:24; 137:10, 12, 17; 138:21; 139:14; 180:4 vernacular 59:12 version 51:6; 128:3; 163:6 versions 131:3 versus 11:11; 29:3; 44:4; 45:19; 90:21, 22, 23, 23; vertical 10:17; 17:2; 43:24; 44:19; 46:6, 24; 141:24

vice-president 6:22; 7:4, 14; 125:10 view 39:11; 61:20; 69:11;

199:21; 205:8; 225:6 viewing 128:14

views 12:8 violate 68:23

via 46:10, 11

Virginia 19:18, 19; 20:9, 9; 201:21; 212:19 virtual 8:22; 15:24; 20:24;

27:21; 50:7; 63:19; 132:10, 19, 19; 133:21; 136:2, 24; 137:22; 141:6; 143:3; 147:1, 10, 19, 20; 148:18; 155:13; 157:20; 207:15, 16; 208:5; 209:14; 210:13; 212:12, 21

virtual-collocation 64:6: 134:16, 24; 135:5, 8, 12, 24; 149:2; 159:18; 209:17; 210:1; 213:3

virtually 116:10; 136:19; 137:5, 7; 141:2; 157:23,

209:23; 212:22 virtue 159:4; 161:8 virtues 131:11 voice 101:7; 208:10 voice-grade 8:11, 13; 47:5; 57:10; 90:4, 23; 91:17; 96:19; 101:3; 224:24 voice-type 208:16 volume 43:15 voluntarily 8:2, 16; 11:24; 13:18; 14:9; 53:15; 68:13, 19; 69:12; 72:7; 152:20 voluntary 13:10; 39:4, 6

24; 160:12; 163:14, 20;

W

volunteer 70:2

wait 77:4 walk 42:5 wants 18:8; 27:18; 41:13; 54:10; 116:3, 4; 160:13; 192:23; 217:18 Ward 214:13 Washington 129:13, 19 way 5:18; 18:8; 37:20; 38:10; 41:13; 42:24; 47:3, 20; 49:12; 50:9; 53:22; 54:1; 55:5; 62:2; 64:12, 14; 66:23; 68:3; 70:11; 76:12; 83:20; 85:1, 5, 7; 97:8; 108:9; 114:3; 133:7; 135:11; 136:19; 150:11; 153:2, 21; 154:6; 159:1, 12; 160:1; 161:7; 167:5; 174:23; 175:23; 188:17; 194:10; 197:24; 198:23, 23; 207:1, 8; 219:16, 22; 225:3 ways 10:17; 11:6, 12; 38:11:40:9, 9:50:12: 169:11; 207:24; 221:10; 222:20 weigh 216:16 Welcome 127:16, 24 West 20:9 what's 43:4; 54:23; 74:19; 86:23; 88:23; 97:12; 114:9; 117:12; 129:23; 170:21; 177:14; 182:6; 183:4 what-if 49:6 whatsoever 153:4, 12 Whereas 29:10 wherever 196:1 who's 196:20 whole 21:3; 28:13; 48:23; 52:17; 157:6; 179:19; 203:17, 18; 212:7; 218:16;

wholesale 7:2; 9:24;

16:20; 180:9; 221:3, 8;

222:15, 17, 21; 224:7;

225:18 wholesaling 225:18 whomever 77:10 Whose 195:4; 198:2 wide 155:24 width 128:16, 17 willing 41:10; 67:19; 70:5; 72:11, 14, 16; 86:16; 88:11; 223:20 wipe 19:14 wire 30:2, 4; 175:12; 186:12; 195:15, 17, 20; 196:6, 7, 10; 197:9, 11, 12; 199:3, 4, 6, 7, 10, 12, 13, 14; 200:16, 18; 202:3, 5, 9, 23, 24; 203:3, 12, 13, 14, 19; 204:3, 12, 21 wired 156:10, 12; 187:7 wireless 15:6 wires 33:21, 23; 34:17; 35:7, 8; 36:2; 66:16;

130:24; 152:11; 162:15, 19; 207:1 wished 116:11; 155:11 withdraw 213:13

withdrew 87:6 Within 11:12; 18:23; 22:13; 23:7, 7; 24:12; 32:16; 45:19; 63:4; 71:7; 99:16; 104:1; 126:11; 136:14; 138:5; 144:20; 151:18; 188:10; 194:8, 15; 196:10; 197:4, 9; 199:4; 202:5, 19; 204:2; 209:20; 216:12; 227:9

without 8:14; 13:13; 14:3, 14; 26:17; 64:8; 76:3; 78:20; 88:12; 95:1, 2; 106:11; 108:15; 118:21; 119:13; 121:8, 12; 146:2; 176:13, 17 WITNESS 6:13, 14, 15, 16, 21, 24; 7:3, 6, 11, 13; 12:23, 24; 13:24; 14:7; 17:4; 19:10; 24:9, 22, 24;

25:6, 8; 36:9; 70:12; 83:19; 85:4, 23; 86:10; 133:7, 18; 136:23; 145:17, 18, 21; 146:1, 5, 7, 12; 148:20; 149:1; 150:4; 170:16; 174:10; 175:3, 9, 14, 22; 176:3, 9; 191:20; 193:14, 18; 198:5, 18; 205:13, 17, 19; 206:4, 8, 10, 11, 22; 207:6, 7, 8, 13, 20, 22, 24; 208:8; 210:17; 214:10 witnesses 5:2, 12, 18;

6:7; 36:23; 37:2; 88:8; 92:11, 22; 134:16; 167:24; 192:21; 228:18

wondering 37:18; 43:1; 67:24

word 48:5; 70:9; 79:22; 122:8; 146:13, 14; 174:22 words 41:11; 48:8; 68:16; 78:2; 82:9, 11, 15; 124:4; 133:3, 14; 146:10; 174:18;

205:19

work 19:9; 20:22; 21:1; 22:10, 12; 23:7, 9, 11; 25:22; 34:16; 53:19; 55:6; 65:17; 68:3; 86:13; 101:6; 133:8; 136:19; 138:5; 139:9, 15, 22; 140:1, 11, 24; 145:24; 146:4, 6; 166:11, 14, 21; 169:7; 171:21; 178:9; 179:24; 182:16; 186:10, 14; 187:1, 4, 22; 188:1, 12; 206:22; 214:11; 217:1

workable 117:22 worked 20:5; 29:19, 20; 67:23; 82:11; 181:16; 212:13

working 16:10; 137:13; 138:23; 139:17, 20; 188:13

works 32:7; 132:20; 135:12; 148:2; 186:6

world 219:23 worlds 75:4

worst 100:2 Worst-case 49:13

worth 47:1 wrapped 26:16

wraps 30:4 wrong 56:14; 150:2;

207:19 wrote 82:15; 177:24



year 53:22; 91:14; 180:4; 226:11

years 19:16, 19; 20:1, 3, 4, 7; 48:21; 53:19; 90:5, 6, 17, 17, 22, 22; 97:24; 98:9, 10; 152:2; 180:6; 208:3

yield 113:12 York 11:17, 21, 22; 12:1, 6; 50:20; 51:4, 7, 16, 19; 52:1, 11; 53:10, 12; 60:3; 61:10; 70:22, 24; 71:20; 73:3, 14, 18; 74:11, 12, 22; 76:2, 6, 11; 77:11, 17, 24; 78:3, 16, 19; 79:6, 15; 80:6, 16, 17, 23, 24; 81:2, 3, 14; 82:17, 19; 83:13, 20, 21, 21, 22; 84:1, 2, 8, 14; 85:6, 10, 13; 87:1, 1, 4, 7, 15, 23; 88:3; 89:6, 9, 21; 91:10; 92:10, 12, 18, 20; 93:10; 94:24; 95:7, 12, 13, 14; 96:17; 97:12; 98:13, 17, 23; 99:7, 10, 15, 18; 100:7, 9, 15, 21, 22; 101:6; 102:6, 10, 16; 103:7, 13, 19; 104:20; 105:7, 12, 19; 106:3, 4, 7, 13, 13, 18; 107:12, 16; 108:4, 12, 13,

17; 109:10, 16, 20, 22, 24;

110:1, 4, 14, 15, 16, 20,

111:10, 12, 15; 112:5, 9,

10, 12, 15, 17; 113:11, 11,

14, 19; 114:5, 6; 117:3; 120:14; 122:24; 123:10, 22; 125:12 **York's** 81:21; 99:9; 108:19

Z

zero 158:14, 17 zone 43:21; 61:16; 90:8, 19, 19; 95:13, 13 zones 41:20; 42:2, 16; 55:19; 62:9; 95:13; 109:22, 23; 191:1, 13

In The Matter Of:

DPU 96-73/74, 96-75, 96-80/81, 96-83, 96-94

Bell Atlantic - Arbitrations

Hearing Volume Number 34 May 15, 1998

* FRITZ & SHEEHAN ASSOCIATES, INC. *
295 Devonshire Street
Boston, MA 02110
(617) 423-0500

Original File MAY15BELV1, 176 Pages Min-U-Script® File ID: 2642361025

Word Index included with this Min-U-Scripto

VOL. 34, PAGES 1-176
COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF TELECOMMUNICATIONS AND ENERGY
DPU 96-73/74

DPU 96-75 DPU 96-80/61 DPU 96-83

DPU 96-94
CONTINUED PUBLIC HEARING held at the Loverett Salfonstall Bullding, 100 Cambridge Street, Boston.
Massechusetts, on May 15, 1996, commencing at 10:03 a.m., concerning:

BELL ATLANTIC - ARBITRATIONS

SITTING: Paul Levy, Arbitrator
Paul Vasington, Commissioner
Joan Foster Evans, Hearing Officer
Douglas Denny-Brown, Legal Division
APPEARANCES:

Pruce P. Beausejour, Esq. New England Telephone & Telegraph Company 185 Franklin Street, Room 1403 Boston, Massachusens 02110-1585

Sosien, Massachuseris 02110-1585
for New England Telephone & Telegraph Company
d/b/a Bell Allanto - Massachuseris
Robert N. Werlin, Esd.

Kongan, Wertin & Pallian 21 Custom House Street Boeton, Massachuselle 02110 for New England Telephone & Telegraph Company d'Ny Bell Adantic - Massachusetts FRITZ & SHEEFIAN ASSOCIATES, INC.

FRITZ & SHEEMAN ASSOCIATES, INC. 295 Devonehire Steps, Bosion. MA 02110 (617)423-0500

Page 2

Jeffrey F. Jones, Esq.
Kenneth W. Salinger, Esq.
Palmer & Dodge
One Beacon Street
Boslon, Massachusolts 02108
for AT&T Communications of New England
Hope Barbulescu, Eeq.
MCI Telecommunications Curporation
One International Ditive
Rys Brook, New York 10573
Alan D. Mandl, Esq.
Ctienberg, Dunkless, Mandl & Mandl
280 Franklin Street
Boslon, Massachusetts 02110

for MCI Telecommunications Corporation

Page 3 INDEX Testimony of: ROBERT V. FALCONE 5 by Mr. Janes 32 by Mr. Beausejour 50 by Mr. Levy 59 by Commissio 52 by Mr. Levy 58 by Mr. Beausejour 70 by Mr. Janes ANNETTE S. GUARIGLIA 74 by Ms. Barbulescu 81 by Mr. Levy 85 by Mr. Basussjour 98 by Ms. Barbulescu ROBERT V. FALCONE 101 by Mr. Vasington 104 by Ms. Barbulescu DON ALBERT 107 by Mr. Beausejour 125 by Mr. Jones' 148 by Mr. Levy 157 by Mr. Jones 165 by Ms. Baroulescu 166 by Ma. Evans MCI Combinations Exhibits 75 nations Record Requests 15 35 16 48 17 153, emended 157 18 171 19 171 Recesses: 31, 70, 98, 107

(1) May 15, 1998 10:03 a.m.

Page 4

(2) PROCEEDINGS

[3] MR. LEVY: Good morning. This is the [4] consolidated arbitrations of Bell Atlantic, Sprint, [5] MCI, AT&T, Brooks Fiber, and Teleport. We're [6] continuing with our discussion of issues [7] surrounding combination of unbundled network [8] clements, and today we are to hear testimony from [9] AT&T and MCI witnesses.

[10] Mr. Jones?

[11] MR. JONES: I had just one [12] preliminary matter, to save a cover letter. Hot [13] off the presses in Vermont is a proposal for [14] decision regarding the legal issues, Federal [15] preemption relating to UNE-P, and I would like to [16] submit copies of that to the Bench and anyone else [17] who—

[18] MR. BEAUSEJOUR: Mr.Jones is of [19] course free to submit whatever he likes to the (20) Bench. However, the Bench has already ruled on the (21) issue.

[22] MR. JONES: With that, we'll call Mr. [23] Falcone to the stand. He's anticipated that call, [24] and he's arrived.

Page 5

[1] MR. LEVY: Mr. Falcone, welcome [2] back. Why don't you restate for the record your [3] name and your position with the company.

[4] THE WITNESS: My name is Robert V. [5] Falcone, and I'm a division manager with AT&T's [6] local services division.

[7] ROBERT V. FALCONE, Previously Sworn [8] DIRECT EXAMINATION [9] BY MR. JONES:

[10] Q: And Mr. Falcone, you have testified here [11] on the UNE-P issue back in December; isn't that [12] correct?

(13) A: That is correct.

[14] MR. JONES: Mr. Levy, Mr. Falcone has [15] prepared an opening statement, which at this point [16] I would ask him to deliver.

[17] MR. LEVY: Please do.

[18] A: I guess the theme of my opening statement [19] is, for this Commission — for you, Mr. Levy, and [20] for this Commission to make an informed decision on [21] the issue facing you, you need to have all the [22] facts. Oftentimes, my experience is, having a [23] partial story is almost as bad, if not worse, than [24] having a false story, because you think you have

Page 6

[1] all the facts, and you really don't.

[2] We heard from a number of Bell [3] Atlantic witnesses a few weeks ago, and I think [4] what we heard from those witnesses in many cases [5] was a partial story — not that it wasn't a [6] truthful story, just that it was a partial story, [7]

What I'd like to do is, if I may, refer to exactly [8] what they told you and even give cites from the [9] transcript, quotes that they told you, and kind of [10] fill in the blanks, if I may.

[11] The first Bell Atlantic partial [12] story—this is from Witness Brown, Transcript [13] Page 9, two quotes. The first one, "Contrary to [14] the claims of others, the UNE platform is simply a [15] substitute for resale of BA's retail service." [16] Close quote. Second, on the same page, further on, [17] the platform, quote, "provides a clear case of [18] uneconomic arbitrage." Close quote.

[19] The full story: If I understand [20] arbitrage, it's when you buy the same thing for a [21] different price and you use that different price, [22] the variances in the price, to get an economic [23] advantage. The case that I'm most familiar with [24] that's often cited is when one buys securities on

Page 7

(1) two different exchanges, the same security, like [2] IBM, but there's a slight variance in price on the [3] Pacific Exchange from the New York Exchange, and [4] they'll use that slight variance in price to buy [5] the same thing for their economic gain.

16) Let's contrast this to what we're [7] doing here. We're buying the platform of unbundled (8) elements, something that is very different than 191 total-services resale. We're buying a different [10] product. When a CLEC buys the platform, the CLEC (11) gets to provide a full range of services, including [12] exchange access, to its end users and to the IXCs. [13] The CLECs get to provide for innovative pricing (14) plans, especially with respect to features, because [15] they get everything at cost-based rates, rather (16) than a discount off of the resale rate. They get [17] to provide innovation, especially through use of (18) AIN capabilities, which we cannot do with

One thing that I think came out which was incorrect (21) is that the platform, because other than the loop (22) element and the switch-port element, all the other (23) elements are usage-based components, they're billed (24) on a usage basis. So they will often cost more

Page 8

[1] than resale.

121 So, with resale I know that I'm going [3] to get the prescribed discount off of the retail [4] rate, and I know what my outlay is each month. [5] When I buy the platform or any other CLEC buys the [6] platform, they have no idea what the outlay is each [7] month because there is a lot of usage-based [8] components, and it

depends on the calling [9] characteristics, both receiving calls and making [10] calls, of their end users.

(III) The next Bell Adantic partial story, (12) a quote from Witness Brown, Transcript Page 11:

[13] The company has proposed various alternatives for [14] CLECs to combine individual UNEs through reasonable [15] and cost-effective means." Close quote. First, [16] let me fill in the blanks and give the full story, [17] Let's take the one alternative off the table [18] immediately, and that's the extended-link service. [19] Extended-link service does not allow the (20) combination of loops and switch ports. Witness [21] Stern admitted that in her testimony, that for a 1221 CLEC to combine a switch port and a loop, the CLEC [23] must collocate in every central office. With that (24) option off the table, we're left with three other

Page 9

[1] options: physical collocation, virtual collocation [2] using the CON-X equipment, and the assembly room.

- [3] Each of these options is not an [4] option. They all entail some form of collocation, (s) and with each of these options the CLECs still is suffer and the CLECs' customers still suffer all [7] the same harm that I testified to back in December, (8) those being, real quickly, unnecessary service [b] outages, unnecessary degradation of service, [10] unnecessary costs, unnecessary delay to market [11] entry, unnecessary extensive manual processes that [12] Bell Atlantic itself doesn't incut, unnecessary [13] restrictions on the number of customers that can [14] change their local-service provider because of all [15] those manual processes, and the fact that some [16] customers may even be precluded from changing their (17) local-service provider because of the loop (18) technology that they're on — specifically, [19] integrated digital-loop carrier technology.
- (20) The next Bell Atlantic partial story, (21) a quote from Witness Brown, Transcript Page 41:
- 122] "If the CLEC wants to buy UNEs, they've got to at [23] least participate in that and put the link and port [24] together." Close quote Also Witness Brown.

Page 10

(1) Transcript Page 47, "We do not believe we're being (2) unreasonable in asking carriers to participate in (3) the provision of UNEs by making the connection." (4) Close quote.

[5] This to me highlights Bell Atlantic's [6] real motive here, because the CLECs are not making [7] any connections. If you recall the diagram — and [8] I have it here

with mc, and I could hand some out, (9) if you like. The diagram that you used back in [10] December: Bell Atlantic has proposed and said that [11] we could prewire all of our connections on [12] collocated space here. Once we prewire that, we [13] develop the space, put in the prewired connection, [14] What we basically have is this daisy chain of [15] connections or this giant U-turn that starts at the [16] MDF, goes all the way through the frame, makes that [17] turn through the collocated space, back through our [18] space, and back to where it started from. [19] When we get customers, who makes the [20] connections to connect the customer's loop to that [21] daisy chain of connections? Bell Atlantic's [22] technicians. The CLEC is really combining nothing (23) here. They're just going through the expense to (24) put in all these connections so that Bell Atlantic

Page 11

(1) could then manually rip apart the network and (2) connect the customer's line to the tie cable going (3) down to the collocated space and connect the (4) customer's port to the tie cable coming from the (5) collocated space.

(6) MR. JONES: Could I interject, Mr. (7) Levy? The diagram that Mr. Falcone was referring (8) to is part of Exhibit AT&T Combinations 2. I think (9) it was Figure 2—

- [10] THE WITNESS: It is Figure 5.
- (11] MR. JONES: in that exhibit that (12) was previously marked.
- [13] MR. LEVY: Thank you.

(14) A: The next Bell Atlantic partial story: [15] The CON-X device that we saw demonstrated is an [16] acceptable alternative for combination of elements (17) when CLECs virtually collocate. And I don't have [18] the specific transcript reference, because there [19] were numerous transcript references. The full [20] story here: The CON-X device adds no value. If we [21] were able to prewire a frame in our secure space, [22] why would we not be able to prewire a frame in [23] unsecure space? Bell Atlantic recognized that they [24] have a problem here with virtual collocation, in

Page 12

[1] that some of the problems with physical collocation [2] would be removed, some of those problems being the [3] delay to establish all the physical-collocation [4] arrangements and the cost of establishing those [5] arrangements, if we were able to just prewire these [6] connections in any Bell Atlantic space.

(7) So they had to come up with an [8] alternative, to not allow for this prewiring in a [9] virtual arrangement, and that alternative was to [10] have the delay and the cost of putting this CON-X [11] equipment in Because it makes no sense—there [12] is no value to me to have that CON-X equipment [13] should I be living with this collocation [14] arrangement if I were able to simply prewire the [15] stuff in the central office.

[16] CON-X equipment, at Transcript Page [17] 63: The CON-X fellow, I believe his name was [18] Kennedy, the witness, represented the CON-X device [19] as new technology. I've been in this business [20] since 1970. Electromechanical technology was [21] removed from AT&T's network, and I would venture to [22] guess from all of Bell Atlantic's network, at least [23] ten years ago. Electromechanical switching, [24] electromechanical devices, were the core of the

Page 13

(1) network when I started in 1970. I don't know of an [2] electromechanical switch in any of — there [3] certainly is none in AT&T's network. I would [4] venture to say there's none in Bell Atlantic's [5] network. This is not new technology. It is a step [6] backwards in technology time. Electromechanical [7] devices are din-

[8] Finally, if the CON-X device is as [9] efficient as Bell Atlantic represents, then I think [10] a solution that would put the CLECs at parity with [11] Bell Atlantic is: Why would Bell Atlantic not wish [12] to replace their MDFs with this device, and then we [13] could all have equal access to the device and there [14] would be no manual work required by any Bell [15] Atlantic technicians or any AT&T technicians?

(16) So I would think if the device is (17) that good — which it's not, and I'm not proposing [18] Bell Atlantic do that, because the device is old [19] technology. It may have some utility in some [20] remote locations where they're not staffed with (21] one of these devices, but not for what Bell [22] Atlantic is proposing it for.

[23] The next Bell Atlantic partial [24] story. Recent change is not a viable alternative

Page 14

- [1] for developing the recent change is not 2 viable [2] alternative for combining the elements, is the [3] general theme of these quotes. A quote from [4] Mr. Albert at Transcript Page 21: "It is not [5] combining the loops through a switch port." [6] Another quote from Mr. Albert at Transcript 170:
- [7] "You cannot use the capability of the switch to [8] unbundle anything. That capability does not [9] disconnect the loop from the switch port." Another [10] Mr.Albert quote, Page 25: "Given enough time and [11] enough money, I suppose it

Bell Atlantic - Arbitrations

could be done, but it's [12] not cheap, and it's not fast." Close quote. And [13] finally, the last quote from Mr. Albert: "I don't [14] have an estimate on it," estimate on the [15] development required. And the quote, "We've had [16] some preliminary discussions with vendors. We're [17] talking more than a year, and we're talking big [18] bucks." Close quote.

(19) The full story: The recent-change (20) capabilities of the unbundled switch disconnect the [21] functionality of the loop as efficiently as if I [22] went to the frame and ripped those cross- (23) connections off the frame. The loop is no longer (24) functional. If I do a recent change in the switch

Page 15

[1] and, say, suspend or disconnect the customer's [2] service, that customer can no longer make or [3] receive phone calls. That customer no longer has [4] dial tone — just, again, as if I physically ripped [5] the things apart.

[6] When Mr. Albert talked about enough 171 time and chough money and he doesn't have an [8] estimate on it, preliminary discussions with [9] vendors, more than a year and big bucks: I've had [10] a lot more than preliminary discussions with [11] vendors. I've talked to CommTech, which is the [12] vendor of the MACSTAR system, personally and [13] extensively myself in three separate meetings. The [14] CommTech manufacturer of the MACSTAR system that [15] Bell Atlantic uses says that that system in no more [16] than six months' time and for no more than \$3 [17] million could be modified to allow CLECs to do [18] recent changes in the Bell Atlantic switches on [19] their lines, providing the same firewall protection (20) that Bell Atlantic allows to their Centrex users. [21] So we're not talking big bucks.\$3 million to you [22] and me are big bucks, but in the scheme of things [23] \$3 million is not big bucks and we're not talking a [24] lot of

Page 16

change: Nothing makes more sense than leaving [3] together the elements. We have a customer who [4] wants to do nothing more than change their local- [5] service provider, and Bell Atlantic claims that [6] they have the legal right to rip things apart-just [7] to make that happen. AT&T's position, and I [8] believe others that you'll be hearing from's [9] position, is that nothing makes more sense than to [10] leave those things together. However, should this [11] Commission find that the CLECs have to combine [12] things themselves, based on what the Eighth Circuit [13] did, what I'm proposing is recent change is a much [14] more

procompetitive way of doing that than what (15] Bell Atlantic is proposing with their various (16) collocation alternatives. [17] Just a few more partial stories: [18] Bell Atlantic states that testing and quality will [19] not be affected by any of their proposals, and [20] that's in the transcript from Pages 29 to Page 35. [21] First, let me state: Mr. Albert testified that he [22] has frame experience, as I do, and he talked about [23] the fact that making these extra connections [24] doesn't add any harm.

Page 17

[1] First off, I note Mr. Albert and I [2] have testified in many states around the country, [3] and I know Mr. Albert has testified in other states [4] that his first job out of Virginia Tech College was [5] in a management position, as an operations [6] planner. So I don't doubt Mr. Albert has any [7] experience doing cross-connections, but I would [8] venture that, considering management people are not [9] allowed to do cross-connections, that experience is [10] during a strike-duty assignment, which would be [11] very limited experience.

(12) I, on the other hand, started at AT&T (13) as a communications technician, have eight years of (14) experience as a communications technician. Myvery [15] first job was frameman, and for six to eight months [16] all I did, day in, day out, was run cross- [17] connections on the frame. Other jobs I had as a [18] communications technician after being frameman, as [19] a switchman, was troubleshooting problems on [20] circuits and oftentimes found those problems were [21] due to faulty connections on the frame. So I have [22] extensive experience.

[23] What I'm testifying here is what [24] intuitively you know, but my experience is backing

Page 18

(1) your intuition; Anytime a human being has to (2) physically make a connection of wires on a frame or (3) physically do anything, whether that connection is (4) made via solder connections; via wire wraps, as (5) Mr. Albert states they do now; via push pins, which (6) is a new technology; the fact of the matter is the (7) solder connections aren't made correctly sometimes, [8] the wire wraps are not made correctly sometimes—[9] they may be connected to the wrong place. They [10] might not be wire-wrapped correctly and getting [11] enough wraps around, maybe loosely connected.

(12) The bottom line is, human beings make [13] mistakes. Bell Atlantic's policy introduces a [14] great deal of human effort into this thing. Recent [15] change and our policy eliminates all that.

[16] Bell Atlantic's next partial story, 2 [17]

quote from Mr. Albert, Page 35 of the transcript;

118] "We make lots of connections. We connect lots of (19) wires. We do it every day, and we're good at it. [20] It's as basic as brushing your teeth." Close [21] quote. Mr. Albert in the same part of his [22] testimony gave examples of Centrex customers moving [23] to PBXs or PBX customers moving to Centrex service [24] or special circuits or unbundled loops. This is

Page 19

(i) clearly a case of apples and oranges. I as a (2) customer — the Bank of Boston doesn't wake up one (3) day and say, Hey, let's get rid of our PBX and [4] we'll make it a Centrex service. Let's call Bell [5] Atlantic and do that. "What they do is, they call (6) Bell Atlantic and say, "We want to replace our PBX [7] with Centrex service." Bell Atlantic makes a [8] special project. They know where all of Bank of [9] Boston's lines are. They have an interval for (10) doing that. They prewire everything, and on the (11) date of the cutover it's a coordinated, orderly (12) effort, with the manpower in place to make sure it (13) can get done.

environment. We're going to advertise, should we (16) be in the market, throughout the State of (17) Massachusetts, in the magazines, in the newspapers, (18) on television programs, on the radio. Bell (19) Atlantic nor AT&T nor MCI has any idea which (20) customers are going to take advantage of our offer, (21) where they are, how many they're going to be (22) initially, and they're going to be from all over (23) the state. There's no preplanning that can be (24) done; there's no prewiring that can be done, as the

Page 20

(1) case is of Mr. Albert's examples of Centrex [2] customers moving to PBX or vice-versa. Also, Mr. [3] Albert gave the example of unbundled loops. [4] Currently, if my numbers are right, there are 2500 [5] unbundled loops in this state. Over, I guess, [6] three to four years. I would not really consider [7] that robust competition. If they can't wire those [8] in correctly over that time frame, God help them [9] and us.

apples-to-oranges comparison to what we need in a [12] truly competitive environment.

[13] Two more, if I could beg your [14] tolerance. Bell Atlantic's partial story: CLECs [15] cannot have prewired blocks on the frame because, [16] quote, "you're going to have a greater number of [17] blocks on Bell Atlantic's frame, which is going to [18] clog up potentially a number of our frames." [19] Transcript Page 58,

Mr. Albert.

[20] Mr. Levy, this was in answer to a [21] question that you asked, on why couldn't they have [22] prewired blocks, instead of being in collocated [23] space, be right on the MDF? And that was Mr. [24] Albert's answer. The fact of the matter is,

Page 2

[1] there's going to be an equal number—I agree with [2] Mr. Albert, there will be more blocks on the [3] frame. But there are going to be more blocks on [4] the frame whether they're prewired or they're not [5] prewired, and there are going to be the same amount [6] of blocks on the frame whether they're prewired or [7] not prewired.

[3] If I think I'm going to get 5,000 [9] customers in a central office and I need this daisy [10] chain of connections to get my 5,000 customers, I [11] have to have enough blocks on this frame to support [12] 5,000 lines going into my collocated space and [13] 5,000 lines coming out of my collocated space. [14] What difference if those blocks are not prewired or [15] they're prewired, strapped together here or not [16] strapped together? It's going to take up the same [17] amount of space on the frame.

[18] The last Bell Atlantic partial [19] story: Service quality is not affected because of [20] these extra connections. And the quote from Mr. [21] Albert is on Transcript Page 29 — not a quote; I m [22] just going to paraphrase. Mr. Albert said that a [23] call from Boston to San Francisco goes through as [24] many connections.

Page 22

(1) First off, if Mr. Albert really (2) believes that, I think we're doing him injustice [3] keeping him out of long-distance business. But (4) secondly, this is another case of apples to (5) oranges. A call from San Francisco to Boston truly [6] goes through a number of connections, may go [7] through a couple of switches to find its way here. [8] However, those connections are made electronically [9] by digital switches with preestablished [10] connections, no human intervention. The days of (11) having Mabel on the cord board saying, "Hold on, [12] Mr. Levy. Let me make your connection to Boston, [13] and plugging in are gone. This is all done [14] electronically, in contrast to the manual [15] connections we're talking about, of connecting all his these wires on the frame, which require human [17] beings for every loop. There's truly no comparison (18) here.

[19] Let me close up here. There are many (20) other partial stories that Bell Atlantic told [21] during that session two weeks ago. I tried to pick [22] these just to highlight Bell Atlantic's true [23] motive.

Their true motive here is, they don't want [24] to see the CLECs use the platform to compete with

Page 23

(1) them. CLECs have made it clear. The only way (2) you're going to get wide-spread competition (3) throughout this state or any state is through use (4) of the unbundled-network-element platform. Bell (5) Atlantic recognizes that, and they're going to (6) great pains to block us from doing that.

[7] The fact is, if Bell Atlantic truly [8] just wants to engage in spite work here, because [9] they claim it is their legal right to do so, it [10] shows their motive of they really don't want [11] competition, they're not serious about having [12] competition here. All they want to do is maintain [13] their local monopoly and get into the long-distance [14] business.

[15] If CLECs had to find themselves in a [16] mode of combining, AT&T's approach to Bell Atlantic [17] as late as, it was the Tuesday before Thanksgiving, [18] because I was involved in the meeting, asking Bell [19] Atlantic that, "We have better ways of doing this, [20] We understand what the Eighth Circuit Court did. [21] We understand your position. We think it stinks. [22] We have a better way. We'd like to talk to you." [23] And Bell Atlantic has refused to talk to us about [24] the recent-change capability. To this day, they

Page 24

[1] still have not sat at the negotiation table to [2] discuss it with us. Their policy is, collocate or [3] no-go — and right now it's no-go.

141 Again, if they're truly interested in [51] opening up their local-market competition, they [6] should demonstrate this by their actions and either [7] not engage in the spite work of ripping things [8] apart and taking customers out of service, simply [9] because they think the Eighth Circuit Court allows [10] them to do that, or if we find ourselves in that [11] position, to work with the CLECs to find a more [12] reasonable way of combining the elements other than [13] their proposals.

- [14] Thank you for your patience.
- (15) MR. JONES: I have a couple of [16] additional questions for Mr. Falcone, if that would [17] be okay.
- [18] MR. LEVY: Of course.
- [19] MR, JONES: Mr.Levy, do you have [20] available to you the exhibits?
- [21] MR. LEVY: I don't have that one with
- (23) MR. JONES: I'll provide a copy to [24] the Bench.

Page 25

- [1] Q: Mr. Falcone, just a couple of questions, [2] to be sure our record is as clear as it can be. Do [3] you have infront of you the diagram that you [4] referred to in your presentation, which is a part [5] of what had previously been marked as AT&T [6] Combinations 2? Specifically, I'm interested in [7] Figure 1 and Figure 5.
- [8] A: Yes, I've got them.
- [9] Q: Am I correct that the diagram that you (10) referred to in your presentation was Figure 5 of [11] that exhibit?
- (12) A: That's the diagram that represents what (13) the condition of the CLECs will be based on Bell (14) Atlantic's proposals.
- [15] Q: Just so we're clear, that's the one you [16] were, referring to during the course of your [17] presentation?
- (18) A: Yes, that's correct.
- [19] Q: This shows the interconnections.
 [20] cross-connections that are required to achieve [21] physical collocation in a central office, where the [22] physical collocation will be required to pass [23] through intermediate distribution frames, in [24] addition to connecting the main distribution frame

Page 26

- [1] and the collocation space. Is that accurate?
- [2] A: That is accurate. It would also [3] represent, if I may, if you could just use your [4] imagination, Bell Atlantic's assembly-room [5] arrangement, except that this would not be [6] physically collocated space, it would just be the [7] assembly-room frame. It also represents the [8] virtual-collocation arrangement. In lieu of the [9] collocation space with that prewired connection in [10] there, you'd have that CON-X robot device in [11] there. But the same daisy chain of connections are [12] involved whichever three flavors you choose.
- [13] Q: Would you go back to Figure 1 of that [14] exhibit:
- (15) A: Yes, sir.
- (16) Q: And just tell us what Figure 1 [17] represents.
- [18] A: Figure 1 represents the majority of how [19] Bell Atlantic's loops are connected to Bell [20] Atlantic switchboards. There are cases, to make [21] the record complete, where Bell Atlantic may run [22] some of these loops in large central offices [23] through an IDF I don't have that figure with me, [24] but just to make the record clear. But that is

Page 27

[1] more the exception than the rule. This is the rule [2] of how Bell Atlantic's loops are connected to Bell [3] Atlantic's switch ports.

- [4] Q: Because it is part of the exhibit, and I [5] would like this to be clear, let me show you Figure [6] 2 of the exhibit. Does that show the existing [7] configuration with IDF interconnections, [8] intermediate connections?
- [9] A: That is the one I was referring to that I (10) didn't bring with me.
- [11] O: Looking at Figure 1 of Exhibit AT&T (12) Combinations 2, what additional equipment, if any, [13] would be required to be inserted in this diagram [14] under the UNE-platform approach?
- 1151 A: None whatsoever.
- [16] O: What additional equipment would be [17] required to be inserted in this picture under the [18] recent-change approach?
- [19] A: None whatsoever,
- [20] Q: Does the recent-change functionality that [21] currently is employed by Bell Atlantic for its own [22] purposes permit the complete disconnection of any [23] switch functionality from a particular link?
- 1241 A: Yes. If I could clarify, to make sure

Page 28

[1] we're all together.

[2] Q: Yes.

- [3] A: Yes, if I could perform recent change—[4] Bell Atlantic today, who has unrestricted recent [5] change, could go up on any link and remove the [6] functionality of the switch from that link.
- [7] Q: Can it remove all of the functionality [8] from that link?
- 191 A: They could do it one of two ways. They [10] could remove all of the functionality from the [11] link, where there would be no dial tone and there [12] would be no incoming calls allowed to the former [13] phone number, or they could do it in a manner that [14] allows for what's known as soft dial tone or warm [15] dial tone, that allows customers to make limited [16] outgoing calls and generally the limit is 911 [17] and to the service bureau, service bureau.
- [19] Q: Youanticipated my next question: Soft [20] or warm dial tone is also sometimes referred to as [21] left-in dial tone; is that correct?
- [22] A: That's correct. And again, left-in dial [23] tone removes all the functionality of the loop, [24] with the exception of allowing the customer one or

Page 29

(1) two types of phone calls.

[2] Q: And Bell Atlantic employs the recent- (3) change methodology to dictate whether a particular (4) loop is left with either no dial-tone functionality (5) whatsoever or soft dial-tone functionality? Is 161 that how they do it?

171 A: That's how they do it, And generally, in (8) Bell Atlantic's practice today, as is the case with [9] every incumbent LEC's practice, the policy is (10) wherever possible not to rip out any physical [11] connections if a customer disconnects service. The 1121 idea is, when some customer moves from their home [13] or apartment, somebody is going to come in behind [14] that customer and move into that home or apartment [15] and want service. So Bell Atlantic removes the [16] former customer's service via the recent-change (17) process and installs the new customer's service via [18] the recent-change process.

(19) Q: And if we inject a CLEC into that [20] scenario, so that the customer wants to convert [21] service from Bell Atlantic to a CLEC, with access [22] to the recentchange functionality, is it the case [23] that Bell Atlantic could turn off that [24] customer's — turn off the switch functionality on

Page 30

- (1) that customer's loop, and a CLEC, if it had access |2| to the recent-change functionality, could turn that |3| functionality back on?
- (4) A: That's exactly right.
- [5] Q: And that could all be done by software, [6] without any physical intervention other than the [7] person operating the computer software?
- 18] A: Well, actually, if it's developed proper, [9] with the proper flows through as Bell Atlantic has [10] for themself, there wouldn't even be somebody [11] operating the computer software; it would all be [12] triggered by the provisioning process. So once the [13] agent took the order from the CLEC the CLEC [14] agent took the order and sent the order over to [15] Bell Atlantic, the rest of it should just flow [16] through, with no human intervention at all.
- [17] Q: And just so we're clear in one place: In [18] your opinion, is that option superior to any of the [19] physical- or virtual-collocation options that Bell [20] Atlantic has advocated?
- [21] A: Vastly superior. As I've testified [22] before, that option eliminates the delay involved [23] with collocation. It eliminates the cost of [24] collocation. It eliminates all the manual

Page 31 [1] intervention, all the additional manual connections [2] that need to be made, all the human error that [3] would go along with that, the additional loop [4] lengths that are involved. You heard it all, on [5] and on.

- [6] Q: Thank you, Mr. Falcone.
- [7] MR! JONES: I have no further [8] questions.
- 191 MR, LEVY: Thank you. Mr. Beauscjour 1101 or Mr. Werlin, would you like a few minutes?
- (11) MR. BEAUSEJOUR: I'd appreciate (12) that. Thank you.
- [13] MR. LEVY: Let's take a ten-minute [14] break:
- [15] (Récess taken.)
- [16] MR. LEVY: Let's go back on the [17] record. Mr. Beausejour?
- [18] MR. BEAUSEJOUR: Mr. Levy, I have a [19] couple of questions for Mr. Falcone. But also we [20] have our witnesses, Ms. Stern and Mr. Albert, [21] available today. I thought that after Mr. Falcone [22] is finished and Ms. Guariglia is finished, that [23] they could provide whatever additional comments [24] they have concerning both of the witnesses.

Page 32

[1] testimony.

- [2] MR. LEVY: I think that would be a [3] good idea. I'm trying to figure out what's [4] rebuttal and what's direct here. I think Mr. [5] Falcone and Ms. Guariglia are still offering [6] direct. So your testimony at that point becomes [7] rebuttal, I think they at that point are entitled [8] to surrebuttal, and then you at that point are [9] entitled to rejoinder.
- [10] MR. BEAUSEJOUR: We'll nuke a lawyer [11] of you yet, Mr. Levy.
- [12] MR. LEVY: I hope not.
- [13] MR. SALINGER: I fear we have.
- [14] MR, LEVY: A little scary; combining (15) economics and law, as you know, is a dangerous [16] thing.
- [17] Go ahead with your questions.
- [16] MR. BEAUSEJOUR: Thank you.
- [19] CROSS-EXAMINATION
- 1201 BY MR. BEAUSEJOUR:
- [21] Q: Good morning, Mr. Falcone.
- [22] A: Good morning.
- [23] Q: Mr. Falcone, you indicated that it was [24] important that the Department have facts in order

Page 33

- (i) to make an informed decision; correct?
- [2] A: Absolutely.
- [3] Q: What decision do you think the Department [4] is making at this stage of the proceeding? In [5] other words, what's the issue before the [6] Department?
- [7] A: Are you trying to make a lawyerout of a [8] technician?
- 191 MR. JONES: Let me object. Mr. 1101

Falcone can give his understanding of what the (11) issue is, and it's not a lawyer's opinion.

[12] MR. LEVY: Fine. We'd welcome your (13) opinion.

[14] A: My opinion is that we had a hearing back [15] in December on how nerwork elements would be [16] combined. At that time Ms. Stern provided Bell [17] Atlantic's position. I presented AT&T's position. (18) My understanding is, the Commission came out and (19) said, Go negotiate. We don't believe Bell (20) Atlantic's way of doing things is the right way. [21] Go negotiate something." AT&T tried to negotiate [22] something with Bell Atlantic, Bell Atlantic came (23) back with its collocation or nothing. And we're 1241 here today to find out what something may be other

Page 34

- (i) than collocation.
- [2] Q: And that's for the purpose of providing [3] access to the individual network elements, so that (4) AT&T or another CLEC can combine them; is that ISI CORFECT?
- (6) A: That's for the purpose of how network (7) elements will be combined.
- (S) Q: By AT&T or a CLEC; correct?
- 191 A: Either that, or should the Commission (10) decide that they have the authority under state law (11) to order you to keep things combined that are [12] already combined.
- 1131 Q: And your RCMAC testimony, that's your [14] view of how AT&T should be permitted to combine the [15] individual link and port UNEs?
- [16] A: If the CLECs find themselves in a [17] position where this Commission, of even the Supreme (18) Court, if it gets that far, decides that the Eighth [19] Circuit Court ruling will stand and CLECs have to [20] combine elements for themselves. then my testimony [21] is certainly recent change is a much more efficient [22] way to do that from a CLEC's standpoint, from a (23) customer's standpoint, and frankly from a Bell (24) Atlantic standpoint.

- [1] Q: With respect to the RCMAC, you mentioned (2) that you had discussions with a CommTech (3) representative.
- (4) A: That's correct.
- (5) Q: Who was that representative?
- 6 A: Actually, there were two CommTech [7] employees. One gentleman's name is Frank Loria. (8) Could I follow up with the name of the second? I [9] can't recall it off the top of my head.
- (10) MR. LEVY: We'll take that as Record IIII Request Combinations 15.
- (12) (RECORD REQUEST.)

- (13) Q: When did that discussion take place?
- [14] A: If you need exact dates, I would have to [15] do that as a record request,
- (16) Q: Just a time frame.
- [17] A: A time frame would have been around [18] December we started those discussions. The formal [19] discussions, the last one was probably in March, I [20] most recently spoke to the CommTech representatives [21] on the phone last week.
- [22] Q: Do you have any documentation that you [23] provided to CommTech regarding the recent-change (24) system?

- [1] A: Other than public things like the Eighth (2) Circuit Court ruling, and just getting them up to [3] speed on kind of the history, no. Most of this was (4) done very informally, in a conference room, drawing (5) pictures on the wall, explaining our proposal and (6) getting their input as to how either existing [7] systems may be modified or a new system may be (8) deployed to accomplish the task.
- [9] Q: Has CommTech provided you with any (10) written documentation regarding their conclusions?
- (11) A: No, they haven't.
- [12] Q: Are you aware of the fact that the [13] MACSTAR system is only one of the systems that Bell [14] Atlantic uses in Massachusetts for recent change?
- [15] A: Yes, based on Mr. Albert's testimony, [16] MACSTAR is one of two. The other one was a (17) Bellcore product, I believe the acronym is CCRS -[18] looking to Mr. Albert nodding.
- [19] MR. ALBERT: That's it.
- [20] A: And based on our discussions with (21) CommTech, their product, MAC-STAR, or a sister (22) product called FastFlow, has the capability of [23] interfacing with every switch technology Bell [24] Atlantic has deployed in the Massachusetts

- (1) network. So it's not an issue of not being able to (2) work with the switch technology.
- [3] We've had cursory discussions with [4] Bellcore, but Bellcore was not going to go into any [5] great detail with us, other than to say that they (6) believe they can work with us to do similar [7] modifications to their system. But Bellcore was is looking for consulting fees. So before we got in 191 depth in those discussions, we didn't really go any [10] further with Bellcore.
- [11] Q: I don't think we've defined it anywhere [12] on the record: What is an

unbundled link? Give us [13] your definition.

- (14) A: Unbundled, in the history, kind of a term [15] of art in the relecommunications industry, in my (16) mind, and I think in the industry's mind until the [17] Eighth Circuit Court came along, was something that (18) could be purchased separately from another item. [19] Let me give an example, a better way to describe (20) this.
- [21] Back in the I'm going to get the [22] time frame wrong; I don't think it's important —(23) late '70s, early '80s, the FCC came out with a 1241 ruling that said that customer-premises equipment

iii should be unbundled from the network, meaning that (2) you could provide your own telephones in your (3) house. When that ruling came along, at the time (4) there was no Bell Atlantic. At the time AT&T, New [5] Jersey Bell, Massachusetts Bell, didn't roll trucks (6) to people's houses to physically rip the phone out 171 and say, "Here's your unbundled phone. Mr. Jones. (8) Now figure out how to reconnectit." What they did [9] was, they unbundled the pricing of the phone from [10] the pricing of local service. So that I then as a [11] consumer had the choice of purchasing my phone from [12] Bell Atlantic on a lease month by month or saying [13] to Bell Atlantic, "Hey, I don't want to buy your (14) phone. Here it is. Take it back. I'm going to go [15] to Sears and buy somebody clse's phone and plug it [16] in.":

[17] That, to me, is unbundling. That has (18) always been the definition of unbundling. I (19) believe that's what the Act and the FCC meant by [20] unbundling, meaning that the nerwork components are [21] priced separately and I have the ability to (22) purchase them as I want, either buy them [23] individually as a loop or I can buy the loop and [24] the switch port. It doesn't mean physically

[1] tripping things apart.

- [2] Q: Well, doesn't an unbundled link refer to [3] a physical facility that has an originating and a (4) terminating point?
- is A: An unbundled link is the functionality of (6) a physical facility, just as, going back to my [7] example, the unbundled customer-premises equipment (8) is a physical thing: the telephone and the wires [9] inside the house.
- [10] Q: But a link when AT&T orders an analog [11] link from Bell Atlantic, it expects it to have one [12] terminating point, perhaps at a customer's (13) premises, and another terminating point at a (14) central office; correct?
- (15) A: In that example, in some cases

Page 34 - Page 39 (8) זייט, ויטטט ז Min-U-Scripto FRITZ & SHEFHAN ASSOC (617) 422 0500

we're [16] buying a thing, like a link. When I buy unbundled (17) switching or unbundled signaling or unbundled (18) shared-transport, I'm not buying a thing, I'm (19) buying a functionality.

(20) Q; I'm just talking about an unbundled [21] link.

(22) A: But you started the question with (23) unbundling, and there are a lot of things that are (24) unbundled.

Page 40

[1] Q: I'm talking now just about a link.

(2) A: When I buy an unbundled link there is an [3] end point, one at the central office and the other [4] end point is the customer premises.

[5] Q: Where in the central office does an [6] unbundled link terminate?

171 A: I guess I would answer that: Depending 181 on the technology of that link, if it were an 191 analog link, it terminates on the main distribution [10] frame. If it were an integrated digital-loop [11] carrier link, the first next place that link has an [12] appearance is in the switch.

[13] Q: You were prefacing an earlier comment by [14] saying "by definition of the FCC." I assume you [15] were going to say, "An unbundled link is [16] something." What's your understanding —

[17] A: I believe the FCC defined the unbundled [18] link, an analog unbundled link, as terminating on [19] the MDF. But again, there are digital-loop-carrier [20] links that don't have an appearance in the central [21] office, that the next place you could find that [22] customer's line is in the switch.

1231 Q: If AT&T is ordering purely an unbundled 1241 port, what is your understanding of what AT&T will

Page 41

(1) order in that instance?

(2) A: May I ask a clarifying question?

[3] Q: Yes.

[4] A: I have my own loop in this case, and I [5] want to plug it into a Bell Atlantic port?

[6] Q: Correct.

[7] A: In that case I am purchasing the [8] unbundled switch from Bell Atlantic.

[9] Q: Where does AT&T under the FCC's rules (10) gain access to that unbundled switch?

(11) A: I believe the FCC definition of the [12] unbundled switch includes all the features, [13] functionalities, and capabilities. Switch, [14] including the line port, the trunk ports, and all [15] the switch software.

(16) Q: If AT&T were to provide its own loop (17) facility, where would AT&T obtain access to the (18) Bell Atlantic

unbundled switch port?

[19] A: Physically?

(20) Q: Yes.

(21) A: We would have established collocated (22) space. I don't know if we'd ever run into this —(23) but we'd have established collocated space, (24) probably. We would deliver to that collocated

Page 42

(1) space. Then the loop would go up to your main (2) distribution frame, and we would access a port on (3) your main distribution frame, if we were buying an (4) analog port.

[5] Q: If we were just talking now about [6] unbundled switch ports, access to unbundled switch [7] ports would be as—you'd expect to obtain access [8] in the manner you just described?

[9] A: I never gave this a lot of thought. But [10] yes, off the top of my head, that's the way I would [11] see it, yes.

(12) Q: Could you think of any other means by (13) which you could gain access to an unbundled switch (14) port, other than as you've just described?

[15] A: If I were buying a DS1 port, I would [16] bring a DS1 facility — for example, a customer [17] that had a PBX may have not analog loops but a DS1 [18] facility. And if I didn't have my own switch, I [19] wanted to use yours, I would bring a DS1 facility [20] through your central office, connect that through [21] your digital cross-connection frame, and get a DS1 [22] switch port.

1231 Q: You also testified, I believe, that the 1241 only way to get widespread competition in

Page 43

(1) Massachusetts is through the platform; is that [2] correct?

131 A: That is certainly AT&T's position. I [4] believe that's the position of many of my fellow [5] CLECs. And I think the marketplace is bearing that [6] out. There is facilities-based competition today, (7) but it is truly a niche competition for the [8] downtown-business market. No LEC, no CLEC, nobody [9] has enough money and enough time to duplicate the [10] Bell Atlantic facilities to serve the customers in [11] the suburbs and the rural areas and the small (12) businesses. The only way we could get off the [13] ground to do that is through the purchase of the [14] unbundled components of the incumbent's network, (15) and then, as the CLEC's market share grew, replace [16] those components with their own.

(17) Q: Has AT&T prepared — have you seen any (18) analysis prepared by AT&T which considers the (19) economics of entering the Massachusetts market [20]

through the UNE platform?

[21] A: I have personally not seen that, no. [22] Q: Are you aware of any analysis that

exists [23] 2t AT&T that considers the analysis of entering the [24] Massachusetts market through the UNE plat-

form?

Page 44

(1) A: I suspect or am quite sure that analysis (2) has been done. I think — and I'm going by memory (3) here. I believe there is an issue in this state (4) with the price of the unbundled elements that we're is also concerned with, that going into the market (6) entails three things really: the ability to have [7] access to the unbundled elements at a reasonable [8] price, both recurring and nonrecurring, and to have [9] the operations support system in place to allow us [10] to order them and have flow-through. So it's [11] really a three-tier thing. We're here today to (12) talk about one of those three tiers, the ability to [13] combine the network clements, which we don't really (14) have today, based on Bell Atlantic's policy.

[15] Q: I'd make a record request for any [16] analysis that AT&T has about the economics of [17] entering the Massachusetts market through the UNE [18] platform.

[19] MR. JONES; I would object to that [20] record request, Mr. Levy. It obviously would; [21] request — I don't know the status of the existence [22] or availability of such analyses. But it would [23] obviously request confidential business-planning [24] documents from AT&T, which I would suggest are of

Page 45

[1] limited, if not no, relevance to the immediate [2] issue that's before the Department for purposes of [3] completing this arbitration process and completing [4] an interconnection agreement between AT&T and Bell [5] Atlantic.

[6] MR. LEVY: Let me respond in this [7] way: If AT&T or one of the other CLECs is as parties of their argument in this case making the case that (9) certain types of entry are not economical or are [10] cconomical and using that as a justification for a [11] certain conclusion that you would like the [12] Commission to reach, in the absence of some kind of [13] quantitative or substantive information supporting [14] that assertion, the assertion is basically just [15] that; it's an unsupported assertion and would not [16] carry very much weight. Now, there may be other [17] arguments that AT&T and the other CLECs might wish (18) to make on this point.

[19] So I guess I throw it back to you and [20] say: In light of what I've just said, in my [21] opinion based on what I've heard

here, if you want [22] to make as part of your case that kind of economic [23] or business argument, if you want to make it in an [24] unsupported way, it won't carry much weight, at

Page 4

- [1] least in my opinion today, which would leave you [2] with perhaps other arguments that you might wish to [3] make.
- (4) MR. BEAUSEJOUR: Mr. Levy, Mr. [5] Falcone testified we could have the stenographer (6) look through the testimony, but this is a pretty [7] fair paraphrase that the only way to get [8] widespread competition in Massachusetts is through [9] the platform.
- [10] MR. LEVY: And that's really what I'm [11] responding to. To the extent that AT&T and MCI and [12] the other carriers wish to make that argument and [13] have it be perceived by the Department as a [14] substantive argument as opposed to, frankly, just a [15] statement without support, I think the kind of [16] information Mr. Beausejour is asking for is [17] relevant.
- (18) I frankly would leave it to you to [19] decide which way you want it. In my view, it's got [20] to be one way or the other.
- (21) MR. JONES: Let me suggest: Could we (22) record this as a record request? It's a little (23) bit, in my mind, silly to argue in the abstract, at [24] least I feel a little bit silly arguing in the

Page 47

- |1] abstract. Let me find out what the facts are, and (2) then we will respond and take into account in (3) responding to what you've just said, to which we (4) will give weight.
- ISI MR. BEAUSEJOUR: Of course it would is be provided under protective agreement.
- [7] MR. LEVY: Of course.
- 181 MR. MANDL: Just an additional 191 observation, since you mentioned MCI as well: I 100 think what Mr. Falcone testified to was that the (11) UNE-P platform does not involve many of the costs (12) which Bell Atlantic would impose through (13) collocation and multiple cross-connection (14) activity. There is plenty of evidence in the (15) record about what those costs are, and those costs (16) are avoided under the approach that he's (17) recommended. Irrespective of what the UNE-P (18) platform costs are, there's an immense level of (19) costs that are avoided.
- (20) MR. LEVY: I take that as a truism, (21) that additional costs are infact additional (22) costs. But that really wasn't the heart of what (23) this record request got to.

This record request [24] got to Mr. Falcone's assertion as to the level of

Page 48

- [1] competition that would likely occur under different [2] scenarios. That's really what my comments were [3] addressed to.
- (4) I understand that there are different [5] levels of costs involved in providing service to [6] CLECs using different arrangements. It's the [7] impact of that which was the thrust, I think, of [8] Mr. Falcone's remark.
- 191 So, Mr. Jones, we'll wait to hear [10] back to you on that record request.
- [11] (RECORD REQUEST.)
- [12] Q: Mr. Falcone, have you examined the Bell [13] Atlantic position statement that was filed on April [14] 17th?
- (15) A: I need to ask a clarifying question.
- (16) Q: Certainly. I'm getting more questions (17) from you than I think I've gotten from any witness (18) lately.
- (19) MR. LEVY: And they're very good [20] questions, too.
- (21) (Laughter.)
- (22) A: Was the position statement the document [23] that explained each of the scenarios under which (24) CLECs could combine the elements?

Page 49

- (1) Q: Yes.
- (2) A: I did read that prior to coming to the [3] May 1st hearing. I haven't read it since then. [4] So, yes.
- [5] O: Have you seen any analysis that analyzes [6] the costs AT&T might incurif it were to obtain [7] unbundled link and port UNEs in Massachusetts [8] through the proposals that Bell Atlantic is [9] making?
- [10] A: I could tell you that I've seen analysis [11] that was done on the physical collocation (12) arrangement in other states, and the costs were [13] astronomical — New Jersey, Maryland, [14] Pennsylvania. What I can tell you is, in this [15] state, whether it's through physical collocation, [16] whether it's through the assembly room, or whether [17] it's through CON-X, regardless of what the costs [18] are, they're all unnecessary costs. As a matter of [19] fact, I don't mind saying it here on the record: (20) In a session we had in New Jersey, that the New [21] Jersey board brought MCI, AT&T, and Bell Atlantic [22] together to try to negotiate something, I on the [23] record in New Jersey said, even if Bell Atlantic [24] were giving collocation away for free, we would not

Page 50 | [1] use it, because cost is only one aspect

- of why this [2] doesn't work. The real problem with your method is [3] all the manual work, all the gating of the [4] cutovers, and all the harm to the customer that [5] AT&T and its brand name doesn't want to impose upon [6] its customers.
- [7] Q: So the answer to my question is, you have [8] not seen any such analysis.
- 191 A: No, I have not. Sorry for the long-1101 winded answer.
- [11] Q: Yes, that was nonresponsive, but that's (12) beside the point.
- [13] MR. JONES: We'll let Mr. Levy [14] declare what's responsive and what isn't.
- (15) MR. LEVY: Thank you.
- [16] MR. BEAUSEJOUR: Mr. Levy, I have no (17) further questions.
- [18] MR. LEVY: Thank you,
- [19] EXAMINATION
- [20] BY MR. LEVY:
- (21) Q: I have one or two, Mr. Falcone. I'd like (22) to explore a little bit the distinction you make (23) between using the UNE platform and resale. This (24) goes way back, to the beginning of these

Page 51

- [1] proceedings, where the CLECs were very intent on [2] ensuring that the resalc discount would be larger [3] rather than smaller, if I can put it that way.
- (4) The clear sense I got at the time was (5) that they cared about that because they wanted to (6) use resale as a way of entering the Massachusetts (7) market.
- [8] A: Yes.
- [9] Q: Are you suggesting now that your company [10] does not view resale as a way of entering the [11] Massachusetts market?
- [12] A: Without a doubt. I think it's even well- (13) documented by both AT&T's chairman, Mr. Armstrong, [14] and our chief operating officer, Mr. Ziegler, that (15) AT&T will not use resale to enter any markets, and (16) suspended resale in any markets that we were in, [17] because it was just not working. We were losing (18) too much money on every single customer we had. If [19] I may, I guess way back when, the strategy AT&T had [20] was resale was a stopgap to get into the market [21] quickly. We thought it would be an easy way to [22] start building up a customer base, with a migration [23] to the platform or facilities-based or a [24] combination of both. The platform is not something

Page 52

11) that's on the horizon, based on all the roadblocks [2] being put up in front of it. Resale inflicts too [3] much pain financially. So AT&T's position is that [4] we

were not going to come into the local market [5] with resale.

[6] Q: I'm trying to square what you just said [7] about resale imposing too much financial pain with [8] your earlier statement today, that the UNE platform [9] can actually be more expensive than resale.

[10] A: Sure, and I can answer that easily.
[11] Let's contrastit. Let me do resale first.
[12] Resale is nothing more than the CLEC
[13] becoming a marketing agent for all of
Bell [14] Atlantic | s high-income products.
Why do I say [15] that? With resale, all the
CLEC gets to do is at a [16] discount resell
Bell Atlantic's local service. The [17] CLEC
does not get the revenue opportunity
that Bell [18] Atlantic has for access
services, which is a [19] high-margin
revenue opportunity. They don't get [20]
the high-margin revenue opportunity
that they get [21] for features, that they do
with a platform,

(22) Q: "Features" meaning?

[23] A: The vertical features of the switch. All [24] we get is the feature at the prescribed discount.

Page 53

[1] It's important to know that the [2] features at the switch are pure profit for any [3] CLEC. I don't have any features on my home phone [4] because I know that in New Jersey Bell Atlantic [5] charges like \$4 a month for call-waiting and it [6] costs Bell Atlantic probably 2 cents to provide [7] that to me. That galls me—besides the fact that [8] I obviously didn't want the first call that came [9] in, never mind getting the second call.

[10] So, until there's competition and the [11] feature prices come down to something reasonable, [12] those things are pure profit. In resale, we just [13] get the discount off of local service. They get [14] all the access revenues. They still get all the [15] high margins on the features. They still get the [16] subscriber line charge. And we become the [17] marketing agent for their products.

[18] If I were Bell Atlantic, I would want [19] to resell every single one of my customers to a [20] CLEC, because I lose all my customer care [21] headaches, I lose all my billing headaches, I lose [22] all my uncollectible headaches, and yet I make all [23] the high margin on the things that are profitable [24] for me: features, subscriber-line charge, and

Page 54

(1) access. When I buy the unbundled elements, I now (2) buy a virtual network —

(3) Q: Before you go to unbundled elements —

[4] A: Sure.

[5] Q: I understand your point that Bell [6] Atlantic makes a profit on resale. As I recall our [7] costing methodology with regard to resale, that was [8] intended, that result was intended. In other [9] words, there was no intent for Bell Atlantic to [10] lose money on resale.

(11) A: Right.

[12] Q: It was intended that it would offer the [13] service at a cost equal to what it would cost to [14] provide that service at wholesale, as opposed to [15] retail.

1161 A: Right.

[17] Q: What you're saying now, though, is a [18] slightly different thing, which is that, [19] notwithstanding the 29 percent discount that [20] Massachusetts set for resale, your company can't [21] offer resale and make money on it, or has chosen [22] not to relative to other options. Which is it?

(23) A: I'm not the cost guy. But based on input (24) I've had, it's the former, that we cannot offer

Page 55

[1] resale and make money.

(2) I think the best way for me as a [3] noncost person to explain this is: The resale [4] discount is based on avoided cost. I believe (5) that's how it was done in this state. Simple [6] logic - not being a cost guy, but simple logic: [7] Their avoided costs become my real costs. So if (8) they no longer have the marketing costs, I have the 191 marketing costs; they no longer have the billing [10] costs, I have the billing costs. But this is a [11] volume business. They have the volumes; I don't [12] have the volumes. So the approximate per-unit cost [13] for me is significantly more than the per-unit cost [14] for them to do the marketing and the billing and (15) the customer care, and all the things that they [16] avoided I now have to do.

[17] AT&T's experience in doing resale— [18] and don't quote me—in six to ten states, and I (19] could get you a list of which they are, is that (20) we've lost money in every case. Finally our [21] chairman came in and said, "Stop. That's enough. [22] We're not going to do this any more."

[23] Q: Let's contrast that with the UNE platform [24] and explain why that's worth doing.

Page 56

11) A: With the UNE platform AT&T becomes the (2) full-service provider for that end user. There's (3) additional revenue opportunities. I guess the (4) bottom line —

(5) Q: Stop right there. Before you go to the [6] additional revenue opportunities, can we compare [7] the things that are the same between the UNE-[8] platform type of service and the resale type of [9] service? For example, your marketing costs are the [10] same, more or less; right?

in A: I would guess, yes.

(12) Q: I'm talking orders of magnitude here. I (13) understand there would be differences. There was a (14) term you used before, let's call it customer care [15] and feeding. That presumably would be the same: [16] correct?

[17] A: Yes.

(18) Q: So what changes?

(19) A: Actually, if I may, while we're on those (20) lines: I would even say with the UNE platform our (21) costs are somewhat greater upfront, because along [22] with those things we now have the obligation of (23) billing access, so we have to have the back-office (24) systems and develop the relationships with the

Page 57

[1] other IXCs, so that we can render them access bills [2] and collect those access—

[3] So there are some other, additional [4] costs that we have with the UNE platforms that we [5] don't have with resale, your interconnection [6] agreements that we have to have with UNE platforms [7] that we don't have with resale.

(8) What's different is the opportunity [9] for additional revenues. First of all, access; [10] Instead of paying Bell Atlantic access, if it's an [11] AT&T local to AT&T long-distance, AT&T local [12] effectively pays AT&T long distance access. It [13] goes from the right pocket to the left pocket. If [14] it's access using MCI or Sprint or some other — if [15] our customer is receiving a call from MCI or Sprint [16] or picks MCI or Sprint as their long-distance [17] carrier, we get to bill them access, and there are [18] additional revenue opportunities.

popents of Bell Atlantic's network,

Page 58

[1] we're entitled, according to the law, to keep that [2] money. So that's additional revenue opportunity.

[3] Features: Because these features are [4] dirt cheap, and when we buy the unbundled switch [5] they're in there—it's kind of like Prego's [6] tomato sauce: It's all in there. We bought the [7] unbundled switch. We're paying for it whether we [8] use it or not. We now could package those [9] features. We could do different things with those [10] features. Maybe we charge our cus-

tomers the same [11] thing Bell Atlantic charges. I don't think that's [12] what competition is all about, but maybe we try to [13] get the same \$4 for call-waiting that Bell Atlantic [14] is getting and then AT&T will have customers like [15] me who are not going to take it.

(16) Q: Why couldn't you have done that under (17) resale?

[18] A: Let's use my \$4 call-waiting. Under [19] resale, I'm paying \$3.20, so there's some room. [20] But in UNE, with the unbundled-element platform, [21] I'm paying nothing. I bought the unbundled [22] switch. I'm paying nothing. It's in there, in the [23] price. So now I have \$4 of margin to play with, as [24] opposed to 80 cents of margin to play with, to

Page 59

(i) offer my customer something.

- [2] That's basically it: There's [3] additional revenue opportunities that Bell Atlantic [4] has. It puts us on an equal playing field with [5] Bell Atlantic. There's extra revenue opportunities [6] that we have with the platform that we don't have [7] with resale.
- [8] Q: But you also mentioned that it puts you [9] at risk to the usage of the customer because you're [10] paying on a per-minute basis for the customer's [11] usage.
- [12] A: If we have a customer who has teenagers [13] at home, making and receiving a great deal of phone [14] calls, it may cost us more to provide local service [15] to that customer than if we used resale to that [16] customer, yet we still have additional revenue [17] opportunities with that customer, and that's a risk [18] that AT&T is willing to take.

[19] EXAMINATION

(20) BY COMMISSIONER VASINGTON:

(21) Q: A couple of questions. If the margins (22) are going to stay the same whether you keep the (23) customer on a UNE basis or whether the customer (24) stays with Bell Atlantic, what's the point, then

Page 60

(I) of having local competition?

(2) A: I didn't say that at all. If I did, I [3] didn't mean to say that. That was not how I meant [4] to characterize it. Let's use a feature, call- [5] waiting, \$4 margin today. It costs \$4, give or [6] take a penny, the margin on that is probably \$3.95, [7] pure profit to Bell Atlantic. Their quarterly [8] reports — I'm diverting for a second. If you read [9] their quarterly reports, they'll say in their [10] quarterly reports that the reason their profits are [11] doing so good this quarter is because of second [12] lines and more acceptance

of features. High (13) margin.

[14] Now AT&T gets in the market. All of (15) a sudden we're trying to compete with Bell [16] Atlantic. MCI is in the market. Others are in the [17] market. We have to differentiate our service. [18] What's the easiest, best, quickest way to [19] differentiate our service is price.

(20) With resale, there's not a lot of (21) opportunity to differentiate with price because (22) there's not a lot to play with. There's not a lot (23) of room there. With UNEs I have \$4 to play with. (24) All of a sudden for that same \$4I might say to my

Page 61

- (1) customers, "Hey, along with call-waiting, we're [2] going to throw in three-way calling and something [3] else." Or, instead of doing that, we might just [4] lower the price to something. The opportunity is [5] there to do it with the platform. The opportunity [6] is not there to do that with resale.
- [7] Q: Those margins that are currently in their [8] retail rates, those were approved by regulators, [9] generally speaking. Would that be correct?
- [10] A: I'mover my head, but I'll say okay. I [11] don't know. I assume so.
- [12] Q: So you're not familiar with ratemaking [13] principles that would have gone into a decision to [14] approve those kinds of very large profit margins [15] that you described, like for call-waiting.
- [16] A: At risk of offending Mr, Levy, when it (17) gets to the economics and the ratemaking stuff, you (18) know, I smy out of those waters.
- [19] Q: Thank you.
- [20] MR. LEVY: You can never offend an [21] economist. There's nothing that you can say that [22] we haven't heard before.
- [23] EXAMINATION
- [24] BY MR. LEVY:

age 62

- [1] Q: On your recent-change proposal; As you [2] describe it, I think I can understand how it might [3] be applied to existing links. Could you tell me [4] how it could be applied, if it could be applied, to [5] new links?
- (6) A: Sure. I'm glad you asked that. First. [7] you need to have the concept of two things need to [8] happen to make the service work. The physical work [9] needs to be done. So on a new link, on this [10] diagram here, the line that looks like the railroad [11] track, making the connection of the loop to the [12] switch port, that's not there. So somebody has to [13] physically make that connection.
- [14] Q: Let's make it clear which figure you're [15] referring to.

(16) A: I'm looking at Figure 1, and it's

how [17] Bell Atlantic is basically networked today. And on [18] a new line, a second line, for example, Mr. Levy, [19] if you called up Bell Atlantic and said I'd like a [20] second line in my house, chances are that [21] connection is not made today. So somebody has to [22] make that connection.

(23) Regardless of who makes the (24) connection —

Page 63

[1] Q: To the MDF?

[2] A: Well, on the MDF. It has to put the [3] railroad track line in there connecting the loop to [4] a new switch port, to a switch port.

15] Q: Let's start further downstream, at the [6] customer, Let's assume there is loop capacity in [7] the local-distribution network, but we're talking [8] about a total new service to a new customer. A new [9] house is built next to my house on the street. [10] Let's go through the steps now as you would see [11] them occurring under your recent-change proposal.

[12] A: There would need to be what I'll classify [13] as outside-plant work that needs to be done. [14] Somebody needs to roll up to this newly constructed [15] house. And let's work under the assumption that [16] there are some spare facilities in the street, or [17] else this could get real ugly. But let's work [18] under that assumption.

[19] A Bell Atlantic technician would [20] connect one of those spare facilities to the [21] customer's network-interface device. They may or [22] may not, if the customer hired Bell Atlantic, do [23] the inside wiring. Bell Atlantic may also have to [24] go to some distribution interface to connect that

Page 64

(i) customer's loop to some transport to get it to the (2) central office. But I'll classify that as all [3] outside-plant work that needs to be done.

(4) The inside-plant work that needs to (5) be done is, the engineering of that loop would tell [6] some inside-plant technician, a frame person, where [7] that loop appeared on the MDF.

(8) Q: So what you're saying is, that connection (9) is already made.

(10) A: The loop connection to the MDE, what's [11] denoted by this black line, the heavy black line [12] coming in, and the cable coming into the cable [13] vault—that loop, that spare loop that was in the [14] ground, has an appearance on their frame.

[15] Q: When you say it has an appearance —

[16] A: The connection is made on the

frame.

[17] Q: Thank you. In other words, has the [18] connection been made to the frame even before [19] there's a customer identified for that loop?

(20) A: Mr. Albert is shaking his head no. Let (21) me go with what I know, and then maybe we can hear (22) from Mr. Albert later.

123] Facilities come into cable vaults, [24] This only shows one customer, but that

Page 85

(1) customer's line is connected to all the other (2) neighbors. You had spare loop facilities. Those (3) spare loop facilities come into a cable vault and (4) are connected on the MDF on one side of this (5) block. That cable and all the pair numbers are (6) listed on that block. So it's Cable No. 100, Pair (7) 1, Pair 2, Pair 3.

18) Q: Even the spares are connected?

191 A: In my experience, spares are connected, (10) We can hear from Mr. Albert later, But in my (11) experience, spares are connected.

(12) Then a technician would have to, when [13] that spare was assigned, the technician would have [14] to run this railroad-track connection, or what we [15] call cross-connection, over across the MDF frame to [6] the switch port that was assigned to that new [17] customer.

(18) Q: So your recent-change approach does not (19) eliminate the need for someone to make that [20] cross-connection.

(21) A: Absolutely not.

[22] Q: On a new customer.

(23) A: On a new customer — that's where I was (24) going with this. For service to work for that new

Page 66

(1) customer, two things have to happen: Physical work (2) needs to be done, both outside plant, inside (3) plant. Anticipating Mr. Albert's testimony — he [4] shook his head no — even if that spare pair is not (5) connected, physical work needs to be done to (6) connectthat spare pair on the frame so that this (7) railroad-track kind of connection could be made.

(8) The bottom line is, physical work needs to be [9] done.

[10] Let's assume it's done and all that [11] physical work is done for your second line. It [12] still doesn't work, because some software work [13] needs to be done in the switch to make the [14] functionality of that loop work with the [15] functionality of that switch.

(16) So under AT&T's proposal to combine (17) the elements with recent change, what we're (18) suggesting is, if you came to AT&T and said you [19] wanted that service or you wanted that second line, [20] we would pay Bell Atlantic the cost-based [21] appropriate rate — we're not looking for a free [22] ride here. We would pay them to make these [23] physical connections. On the due date the service [24] still doesn't work. The functionality to that loop

Page 6

[1] doesn't work until somebody tells the brains of the [2] switch, "Mr. Levy has this second line on this [3] switch port." On the due date, AT&T would go into [4] the recent-change process and do that software work [5] to make the functionality of the of the loop work [6] with the functionality switch, effectively [7] combining the elements in the software.

[8] Q: Just to be clear, under your proposal, [9] the physical connection between the loop side of [10] the MDF and the switch side of the MDF would not be [11] defined as a combination. In your proposal the [12] combination would be defined as the moment the [13] switch through an electronic instruction turned on [14] that line. Is that correct?

[15] A: Making that combination would be done [16] through turning on that line in the switch. So I [17] should have answered that yes, and then made the [18] clarifying point.

[19] MR, LEVY: Iknow I've asked a few [20] more questions. Do you have any followup?

[21] MR. BEAUSEJOUR: I have a couple of [22] questions by way of followup.

[23] CROSS-EXAMINATION

[24] BY MR. BEAUSEJOUR:

Page 68

[1] Q: Referring to your Figure 1, Figure 1 from [2] AT&T Exhibit No. 2: Where on this figure does the [3] unbundled loop terminate? Just an unbundled loop.

(4) A: If I were buying nothing but an unbundled (5) loop?

161 Q: Correct.

(7) A: It would be on the line side of the MDF, [8] what's represented here as the line side of the [9] MDF.

[10] Q: And if AT&T were buying just an [11] individual switch port, where on this diagram would [12] that individual switch port terminate?

[13] A: The switch ports appear on the MDF on [14] what's labeled here as the switch side, or commonly [15] known as the horizontal side in the central office [16] of the MDF.

[17] Q: Now, is that based upon your [18] understanding of where they terminate, or is that [19] based upon FCC definition, if you know?

(20) A: It's certainly my understanding. I'd (21) have to read the FCC order again; I'm sorry.

[22] Q: You indicate that AT&T doesn't intend to [23] enter the local market in Massachusetts by resale; [24] correct?

Page 69

[1] A: I am not the business guy here. All I'm (2) representing is what I've heard my chairman say, (3) and my chairman said, "We'reinot going to do any (4) more resale." So when he says "any more," I have (5) to think that this applies to this state as well as (6) the other 49.

17) Q: Maybe a bit of an unfair question for [8] you, given that answer; but what interest would [9] AT&T then have in the level of the resale discount [10] that's being established in this proceeding?

the unfairness of that question.

[13] MR. LEVY: I think that is a little [14] unfair.

[15] MR. BEAUSEJOUR: It is a good [16] question, however.

(17) MR. LEVY: I had a feeling that (18) question would come up sometime in the next two or (19) three months, but I don't think he needs to answer [20] that.

[21] MR. BEAUSEJOUR: I have nothing [22] further.

[23] MR! LEVY: Any redirect?

[24] MR: JONES: Could I take a few

Page 70

[1] minutes?

(2) MR. LEVY: Of course.

[3] (Recess taken.)

HI MR. LEVY: Back on the record.

(5) REDIRECT EXAMINATION

(6) BY MR. JONES:

[7] Q: Mr. Falcone, Mr. Levy asked you about the [8] physical-plant work that's required to provide [9] service under the recent-change scenario to his new [10] next-door neighbor who is just moving into a new-[11] construction house and doing the physical work to [12] connect that house back to the central office. Do [13] you recall that?

[14] A: Yes.

[15] Q: Is that physical-plant work that you [16] described, the outside-plant work, and the central- [17] office work that you described assuming the spare [18] line hasn't already been connected at the central [19] office — does that change if you move from the [20] recent-change approach to a UNE-platform approach?

[21] A: No, it does not. The same amount of work [22] would have to be done.

[23] Q: Does it change if you move from a [24] recent-change or a UNE-platform to a

resale

Page 71

[1] scenario?

- [2] A: No. Again, simple logic: The physical [3] work needs to be done no matter which flavor or [4] variety of ways you serve that customer. The same [5] work needs to get done.
- [6] Q: And we're back to an already-dead horse [7] being beaten; but does it change if you move from a [8] recent-change and a UNE-platform and a resale [9] scenario to the Bell Atlantic collocation [10] scenario?
- [11] A: No. Again, up to that point on the [12] frame, all that manual, physical work needs to be [13] done. All the Bell Atlantic collocation scenario [18] is, it adds this much more manual work that needs [15] to be done.
- [16] MR. LEVY: "This much more"?
- 117) THE WITNESS: For the purpose of the [18] record, showing what's in Figure 5.
- [19] Q: Mr. Falcone, back to your Prego tomato [20] sauce, where you describe the costs for the [21] vertical features of a switch being zero because [22] when you buy the switch you get those [23] functionalities. Do you recall that?
- (24) A: I recall saying that.

Page 72

- [1] Q: Are you aware that in calculating the UNE (2) switch costs in prior phases of this proceeding (3) that some cost for vertical features was calculated (4) and included in the switch costs?
- (5) A: Yes, I'm aware of that, And I didn't (6) mean to imply, if it came out that way, that we (7) were getting those features for free. I guess my (8) point was that if the cost was truly cost-based, (9) those features are so cheap for Bell Atlantic that [10] that component of the features in the switch costs [11] would be so small that it's all in there.
- 112] Q: And is it your understanding under the (13) UNE costs as calculated that when you buy the (14) switch UNE you are for that one price getting the (15) switch functionalities, including the vertical (16) features functionalities?
- (17) A: Yes, sir.
- (18) Q: And finally, just to ask you a general (19) question: From AT&T's point of view, is (20) collocation always a bad thing?
- [21] A: No, absolutely not. There are times when [22] collocation is a necessary evil. If I have my own [23] switch, which is not physically in the same spot as [24] where the loops terminate it might be two miles

Page 73

- [1] down the road and yet I need access to the Bell [2] Atlantic loops, I'm going to need to collocate some [3] kind of facilities, whether they be transport [4] facilities or remote switching facilities, to [5] access those loops and deliver them to my switch. [6] In those cases collocation is a necessary evil.
- [7] In the case when the loops and the [8] switch that I want to purchase again, looking at [9] Figure 1 are in the same building, in the same (10) location, it doesn't make sense to have to [11] collocate to combine the two.
- [12] MR. JONES: I have nothing further.
- [13] MR. LEVY: Thank you. Thank you very [14] much for coming, Mr. Falcone.
- [15] THE WITNESS: Thank you, Mr. Levy.
- [16] MR. LEVY: Ms. Barbulescu, your [17] witness.
- [18] MR. LEVY: Why don't you give your [19] name and position for the record.
- [20] THE WITNESS: My name is Annette S. [21] Guariglia, I'm a regulatory analyst for public [22] policy, local competition group,
- [23] ANNETTE S. GUARIGLIA, Previously Sworn [24] DIRECT EXAMINATION

Page 74

(I) BY MS. BARBULESCU:

- [2] Q: Ms. Guariglia, do you have copies of your [3] direct and supplemental testimony that was [4] submitted in Massachusetts in this case?
- [5] A: Yes.
- [6] Q: And were these documents which were [7] submitted April 28th and April 17th prepared by you [8] or under your direct supervision and control?
- [9] A: Yes, they were.
- [10] Q: And do you have any changes or [11] corrections to make to these documents?
- [12] A: No, I do not.
- (13) **G**: And do you adopt these documents as part (14) of your sworn testimony in this case?
- [15] A: Yes.
- [16] MS. BARBULESCU: Arbitrator Levy, Ms. (17] Guariglia has an opening statement that she would (18) like to make today, with your permission.
- [19] MR. LEVY: Fine. Let's first mark [20] her direct testimony as MCI Combinations 1 and her [21] supplemental 2s MCI Combinations 2.
- [22] (Exhibits MCI Combinations 1 and MCI [23] Combinations 2 marked for identification.)
- 1241 MR. LEVY: I'd be happy to hear the

Page 75

(i) opening statement.

- [2] A: The purpose of my opening statement is to [3] rebut comments made by Ms. Paula Brown and Ms. Amy (4) Stern on May 1st, '98, with regard to Bell [5] Atlantic's combination proposals and my testimony, 161 Ms. Brown and Ms. Stern claim that UNE platform is (7) a substitute for the resale of Bell Atlantic - [8] Massachusetts's retail service. Contrary to these 191 claims, it is incorrect to state that service [10] offerings via UNEs and resale are equal. As stated [11] in my testimony, resale is a service-based [12] approach, while UNEs is a facilities-based [13] approach. CLECs such as MCI are going to make a [14] strategic choice between these two modes of (15) providing service based on their overall objective [16] as a company.MCI has made it very clear that it (17) wants to be a facilities-based provider of local [18] service, not a reseller of Bell Atlantic's retail [19] localservice offering.
- [20] Resale, contrary to Ms. Stern's [21] claims, does not offer MCI the pricing flexibility [22] and product differentiation necessary for it to [23] compete on a broad scale, because it causes MCI to [24] be dependent on Bell Atlantic's retail structure.

Page 76

- [1] The effective use of UNEs is [2] essential in encouraging facilities-based [3] competition in the State of Massachusens. The (4) leasing of UNEs, because it is a facilities-based [5] approach, gives CLECs some measure of control over [6] the use of its open network facilities. [7] Furthermore, Ms. Stern misinterpreted my testimony (8) by stating that I implied that, quote, "resale is 191 more complex and restrictive operationally than [10] UNEs," unquote. In fact, my testimony states the [11] opposite: Purchasing UNE combinations is more [12] complex than resale because with the use of UNEs [13] comes all the obligations and accountability [14] associated with being a facilities-based provider [15] of service.
- [16] MCI is willing to take on these [17] additional obligations because in return MCI will [18] gain more control over its network and its service [19] offerings, which allows MCI to differentiate itself [20] in the market.
- [21] Building a facilities-based network, [22] however, is time-consuming and costly. MCI, [23] because it does not have the ubiquitous facilities [24] network enjoyed by Bell'Atlantic today, needs to

Page 77

(1) lease unbundled network elements until such time as (2) it can ultimately replace those elements with its (3) own

facilities.

[4] With regard to Bell Atlantic's [5] various proposals for UNE combinations: Ms. Brown [6] claims that these proposals are, quote, "are (7) substantial and promote competition," unquote. (8) Unfortunately, this could not be further from the 191 truth. It is undisputed that BA would offer UNE (10) combinations if it so wished. BA instead, however, [11] has proposed several proposals, all of which [12] require some form of physical collocation, require [13] multiple connections that increase costs, and [14] create additional points of potential failures. [15] Such proposals can hardly be described as efficient [16] or as promoting competition.

proposal requires CLECs to incur additional [19] transport charges and does not offer the benefits [20] of traffic concentration. This proposal is not [21] consistent with current ILEC forward-looking [22] network design because it does not provide an [23] efficient loop-transport combination for voice [24] analog loops and DSO transport combination. It is

Page 78

[1] inefficient to dedicate a DSO circuit of [2] interoffice transport to each and every voice-grade [3] analog loop.

sociated with digital-loop carrier equipment, [6] with GR-303 capability, along with interoffice [7] transport at the DS1 level, to access voice-grade [8] analog loops. This is because most subscribers of [9] voice-grade analog lines use their service [10] intermittently, thus making it inefficient to [11] dedicate transport to a single loop which will be [12] idle much of the time.

available for three years. If a CLEC opted to use [15] this option, it would have to collocate in every [16] end office at the end of those three years or have [17] a ubiquitous facilities-based network, which would [18] be impossible for any carrier to replicate in that [19] time frame.

[20] The switch-subplatform proposal does [21] not offer CLECs the ability to combine loop and [22] port without physical collocation. This proposal [23] only offers CLECs the ability to combine switching [24] and transport on the trunk side of the switch.

Page 79

[1] The virtual-collocation proposal, [2] BA's virtual-collocation proposal, as testified by [3] Mr. Kennedy, would allow a CLEC to virtually [4] perform cross-connects. But from his testimony, it [5] is apparent that the equipment is costly, has not [6] been tested extensively for the

purpose of remotely [7] assembling UNE combinations, and in the end [8] requires physical collocation of equipment by the [9] CLEC.

[10] Bell Atlantic has yet to provide a [11] proposal for combination of UNEs that is as [12] efficient as MCI's proposal. As I have stated in [13] my testimony, MCI is proposing that Bell Atlantic [14] combine UNEs for CLECs or keep them combined if [15] they are already combined in their network, subject [16] to the appropriate nonrecurring charges to CLECs [17] based on forward-looking efficient costs.

[18] MS. BARBULESCU: If I may, I have (19) some questions for Ms. Guariglia with respect to [20] some of the other testimony we've heard today.

[21] MR, LEVY: We might as well do it.

(22) Q: Ms. Guariglia, MCI is not only requesting (23) a total combinations or a UNE platform, but also (24) subsets of combinations; isn't that correct?

Page 60

[1] A: That's correct.

[2] Q: And one of those combinations would be a [3] loop-transport combination; is that correct?

[4] A: That's correct.

[5] Q: You heard Mr. Falcone testify on behalf [6] of AT&T today with respect to recent-change or [7] RCMAC; correct?

B A: Correct

(9) Q: And RCMAC would allow access to the total (10) UNE platform or total combinations; isn't that (11) right? Or it's been testified to.

(12) A: My understanding is that RCMAC would (13) allow you to complete some software changes (14) associated with combining network elements. But (15) then again, I'm not an expert on RCMAC.

(16) Q: Would RCMAC allow MCI to get access to (17) just the loop-and-port subcombination that MCI is (18) requesting here?

[19] A: No, I've been informed that RCMAC does [20] not perform the loop-and-transport combination.

[21] Q: And this is based on your understanding, [22] is it not, that RCMAC is a switch-based [23] technology?

[24] A: That's correct.

Page 81

(1) MS. BARBULESCU: I have no additional (2) questions.

(3) MR. LEVY: I have a couple.

[4] EXAMINATION

[5] BY MR. LEVY

[6] O: Explain your loop-transport combination a (7) little bit more, if you would.

Explain how that [8] would be used or for what purpose that would be [9] used.

(10) A: If MCI has a switch, as it does in (11) downtown Boston, we would want to purchase the loop (12) from the end user and to transport that back to our [13] switch and then perform the switching functionality (14) at our location wherever that switch is. We don't [15] need Bell Atlantic's switching capability.

[16] Q: Was it your understanding that before the (17) policy change of Bell Atlantic, whenever that was, [18] after the Eighth Circuit, that that combination was (19) being offered to you?

(20) A: I'm not sure if it was being offered in (21) Massachusetts, but it is currently being offered in (22) New York.

[23] Q: I'm trying to get it back to pre-Eighth [24] Circuit, At that time was it being offered in

Page 82

(i) Massachusetts?

[2] A: I don't know.

[3] Q: This may be a definitional issue, it [4] probably is. But when you say that the UNE [5] platform permits facilities-based competition, I [6] don't understand why leasing the whole set of [7] facilities from Bell Atlantic is being defined by [8] you as facilities-based competition.

191 A: First of all, I want to let you know that 1101 the term "platform" is not used internally at MCI. 1111 We just don't like that word at all.

|12| MR: BEAUSEJOUR: It's an AT&T word.

[13] A: Well, because it misrepresents our goal, [14] and it misrepresents what UNEs are. UNEs are [15] individual network elements.

[16] Now, in some cases we might opt to [17] purchase every element, which you refer to that as [18] platform, if that's what you refer to it as. I [19] would refer to it as total combinations. That [20] would be in places where we don't have facilities.

[21] Now, wherever we do have facilities, [22] we would only purchase the elements that we [23] currently do not have.

[24] Q: I understand, I was trying to

Page 83

[1] understand — I think the term "UNE platform" that [2] I've heard — or maybe I was just interpreting it [3] this — means, essentially the soup-to-nuts link [4] all the way through switching to transport, [5] whatever.

6 A: Right, because you would be —

[7] Q: The total service, if you want to look at [8] it that way.

[9] A: Correct, because you're purchasing every [10] element. And you